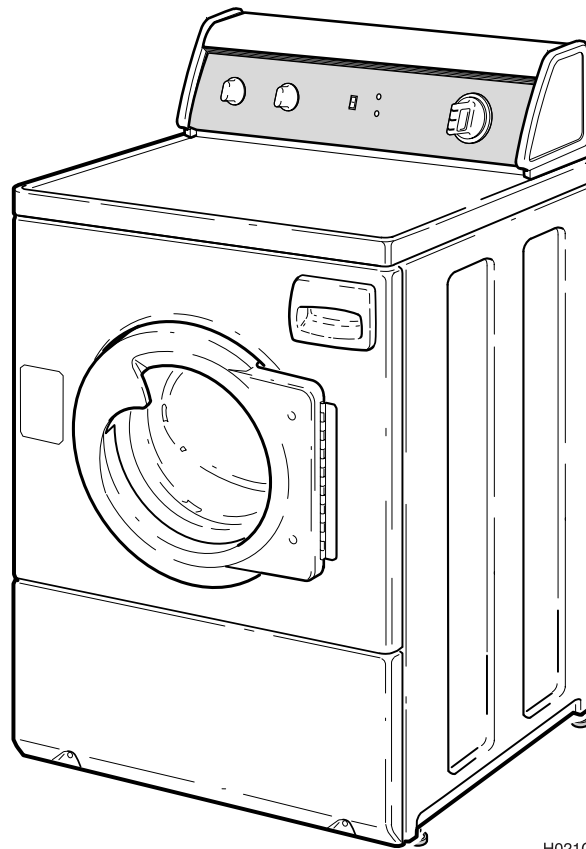


# Homestyle Frontload Washers

Refer to Page 6 for Model Numbers



H021C

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# Section 1

## Safety Information

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION,” “WARNING,” and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

### **▲ DANGER**

Danger indicates the presence of a hazard that **will** cause **severe** personal injury, death or substantial property damage if the danger is ignored.

### **▲ WARNING**

Warning indicates the presence of a hazard that **can** cause **severe** personal injury, death or substantial property damage if the warning is ignored.

### **▲ CAUTION**

Caution indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage if the caution is ignored.

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.


### **IMPORTANT**


The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.


### **NOTE**


The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

|  |                  |
|--|------------------|
|   | <h2>WARNING</h2> |
| <ul style="list-style-type: none"><li>• <b>Failure to install, maintain and/or operate this product according to the manufacturer’s instructions may result in conditions which can produce serious injury, death and/or property damage.</b></li><li>• <b>Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.</b></li><li>• <b>Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.</b></li></ul> <p style="text-align: right;">W006R1</p> |                  |

|  |                |
|--|----------------|
|   | <b>WARNING</b> |
| <p>To reduce the risk of electric shock, fire, explosion, serious injury or death:</p> <ul style="list-style-type: none"><li>• Disconnect electric power to the washer before servicing.</li><li>• Never start the washer with any guards/panels removed.</li><li>• Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.</li></ul> <p>W003</p> |                |

|   |                |
|---|----------------|
|    | <b>WARNING</b> |
| <p>Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you, or the inexperienced person making such repairs, to the risk of serious injury, electrical shock or death.</p> <p>W007</p> |                |

|   |                |
|---|----------------|
|    | <b>WARNING</b> |
| <p>If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.</p> <p>W008</p> |                |

**NOTE:** The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the washer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

### Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

# Section 2

## Introduction

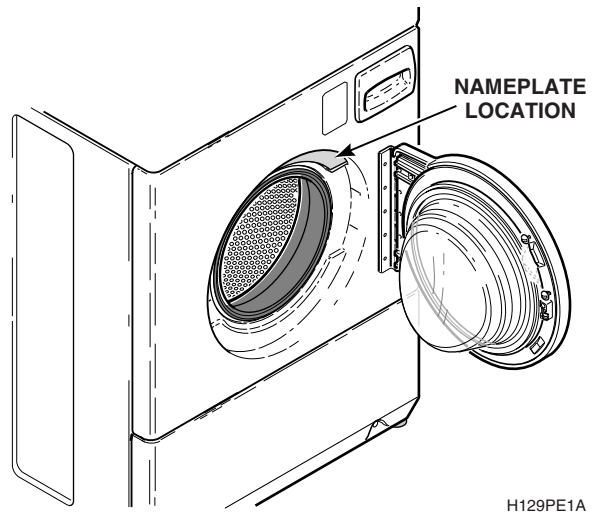
### Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

### Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



## Model Identification

Information in this manual is applicable to these machines:

LTS84A\*H

LTS84B\*H

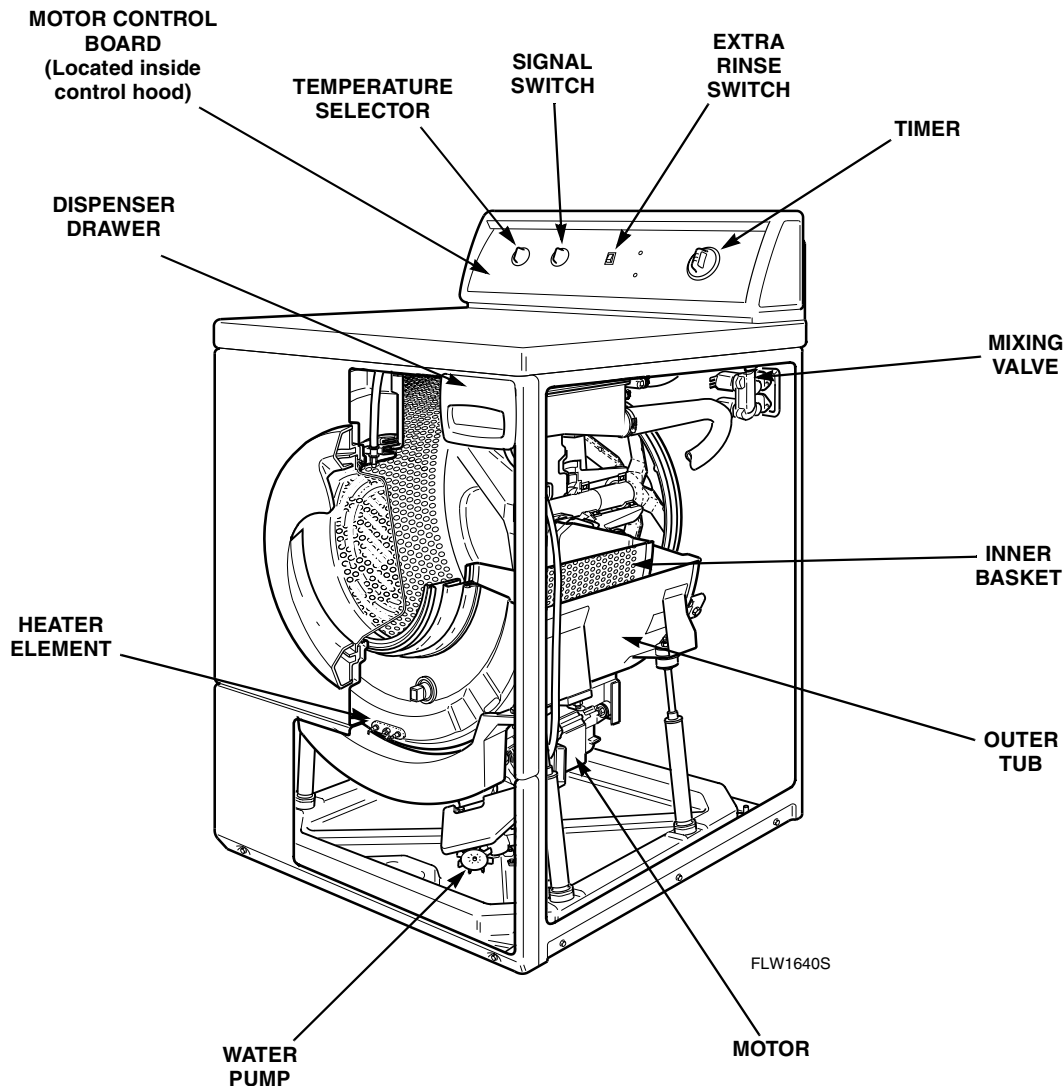
LTS85A\*H

LTS85B\*H

LTZ85A\*H1102

\* Add Letter To Designate Color. L – Almond W – White

# How Your Washer Works



## General

This frontload washer provides some of the same principles of operation as the typical topload washer. It senses water level, it dispenses the desired laundry detergent, tumbles the clothes for good cleaning action, pumps the water out of the washer and spins the clothing for preparing for the dryer.

The difference in operation is primarily the rotational washing cycle that tumbles the clothes in a timer controlled clockwise, pause and then a counter-

clockwise direction. This reversing cycled tumbling action provides a much more efficient washing process which requires less laundry detergent and less water.

The cycle begins by locking the loading door with a wash fill command from the timer. The water temperature is determined by the temperature selector. If the boosted heat water temperature is selected, an internal heater is activated. This internal heater will raise the water temperature approximately one degree per minute up to a final temperature of 140 degrees.

## Section 2 Introduction

While water fills the inner basket, a column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the inner basket fills with water until it is great enough to activate the pressure switch. Then the pressure switch causes the wash fill to stop and starts the reversing rotational washing cycle.

The reversing rotational cycle tumbles the clothing in a clockwise direction for a period of 20 seconds, pauses for 9 seconds and then tumbles the clothing in a counterclockwise direction for 10 seconds. This action continues until the completion of the wash cycle selected on the timer.

Upon completion of the wash cycle, the machine goes into a rinse cycle. The rinse cycle consists of a spin mode that removes the majority of the detergent water from the clothing and also activates the electric water pump which removes the wash water. Fresh temperature selected water is brought into the inner basket via the mixing valve, the pressure switch shuts off the water and then a rinse cycle starts. The rinse cycle consists of a tumble reversing action similar to the washing cycle for a pre-determined amount of time, a spin mode, and includes water being pumped out and fresh water being brought into the washer. Several of these rinse cycles will take place, based upon the operator timer wash type selection and the optional activation of the “Extra Rinse” switch selector on the control panel.

After all the rinse cycles have been completed, the washer goes into a 1059 rpm final spin cycle for 90 seconds to extract as much water as possible from the clothing, preparing them for the dryer. When this fast spin cycle is completed, the washer goes into a fluff tumble mode similar to agitate, only without water. Operation stops and the loading door interlock is deactivated allowing operator entry into the washer.

## Technical

The basic operational controls of this washer consist of the motor control logic board, timer, pressure switch, temperature switch, D.C. motor and electric pump.

The principle of operation remains the same as other washing machines. The door locks and starts the timer. The timer starts the machine process by first having the electronic control activate the dual water inlet mixing valve which starts to fill the washer via the

dispenser mixing valve. The water temperature is determined by the operator-selected temperature switch position, which selects the hot, cold or both mixing valves. The second step is adding the detergent and other washing ingredients. This process continues until the air pressure, via the pressure bulb and hose, activates the pressure switch, which overrides the timer fill command.

The timer continues its rotational cycle, which then sends the command to the motor control board to start the timer rotator. The tumble rotating action is a specific wash cycle rotation, pause and then reverse rotation. This process continues for an operator's selected period of time.

The next command mode the timer signals to the motor control board is to start the rinse cycle. This cycle signals the electric pump to turn on and direct the wash water out of the washer. The motor control board then commands the motor to go into a faster spin cycle in an attempt to remove a reasonable amount of water out of the clothing. The spin cycle stops and then adds fresh rinse water into the washer via the inlet mixing valve and dispenser hose. After the pressure switch shuts off the water inlet mixing valve, the motor control board commands the motor to start the normal wash rotational, pause, reverse direction process for a timer-controlled amount of time. This rinse cycle is completed twice unless the extra rinse switch has been selected by the operator. Another rinse cycle takes place each time the extra rinse switch is selected.

The next portion of the wash cycle is the spin cycle. In this cycle the control board turns the electric pump on to remove the rinse water from the tub. The washer will spin at a distribution speed of 90 rpm until the pressure switch is satisfied as empty. The washer then goes to a 500 rpm spin for 30 seconds and returns to the 90 rpm distribution speed for another 30 seconds. This allows the motor control board to “sense” the out-of-balance condition of the load. This sequence is repeated any time the washer attempts to go to a spin speed. At this time the washer then goes into a final spin mode of 650 rpm for approximately 5 minutes and ramps up to 1059\* rpm for the remaining 90 seconds.

\*(For Regular and Rinse and Spin cycles only).



# Section 3

## Troubleshooting




### WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

FLOW CHARTS AND SCHEMATICS  
FOUND ON THE FOLLOWING PAGES  
ARE FOR MODELS COVERED IN THIS MANUAL.



# WARNING

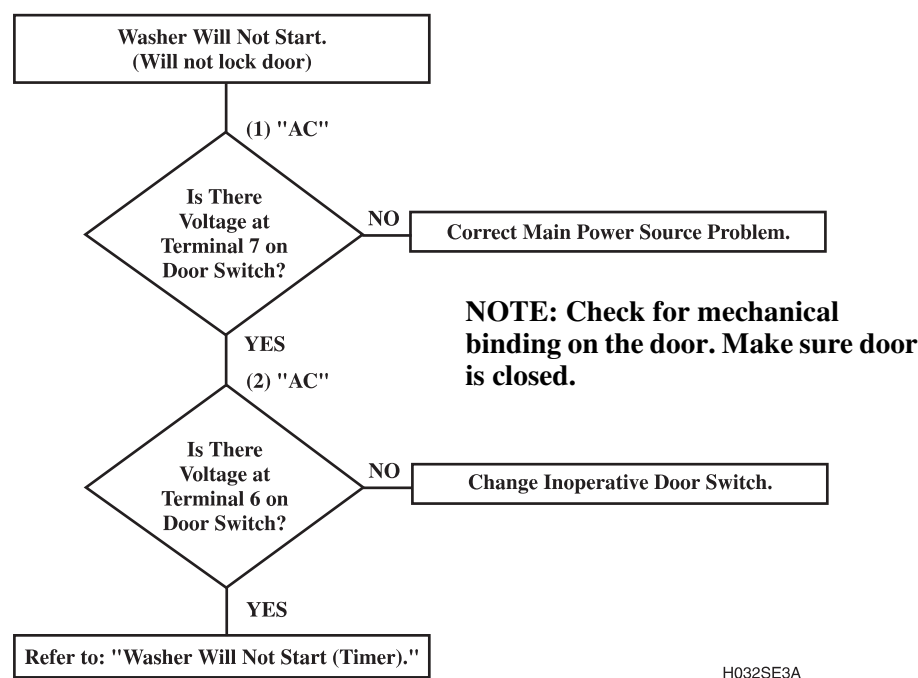
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

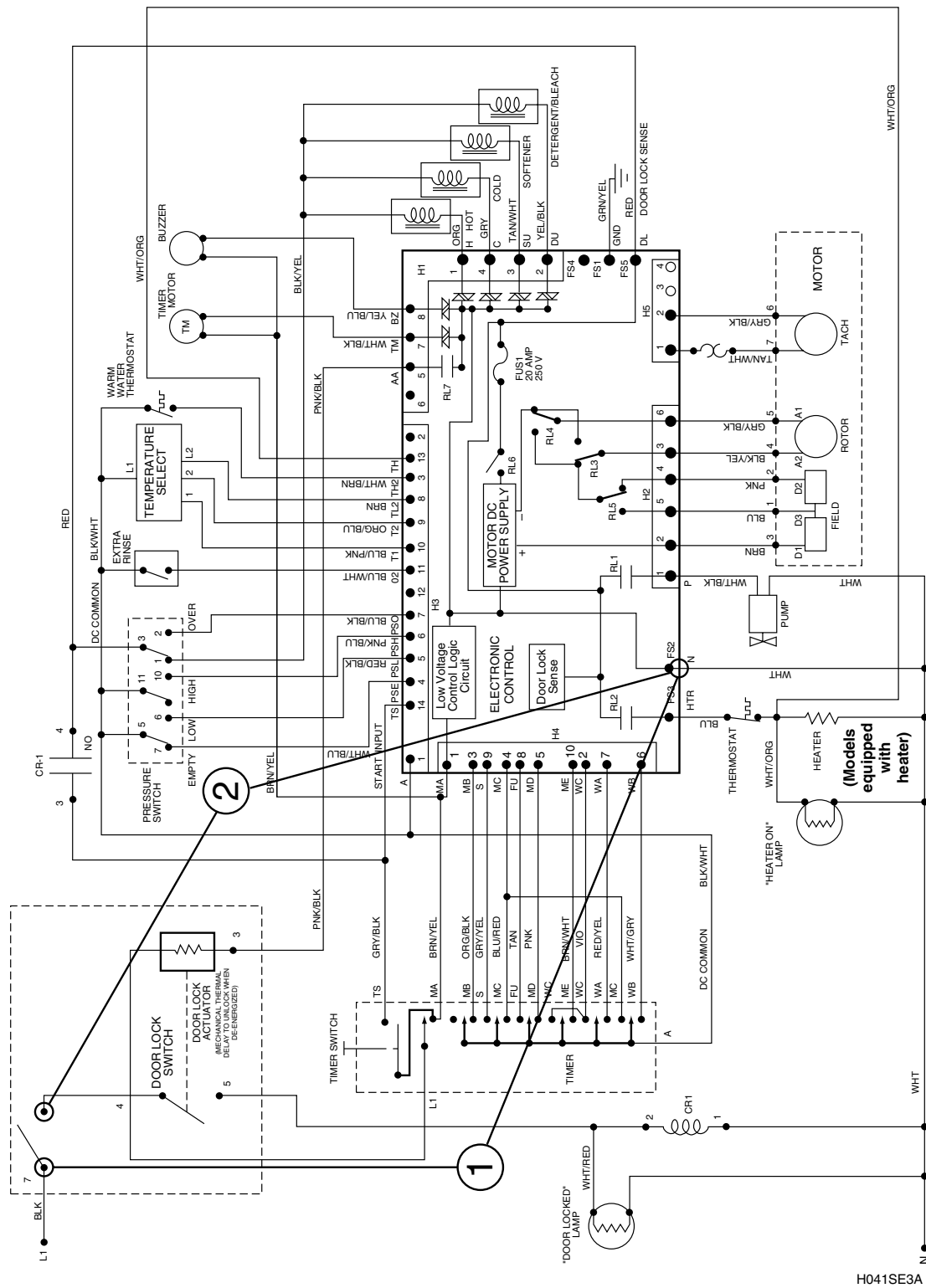
W003


1. WASHER WILL NOT START (Door Switch Analysis)

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



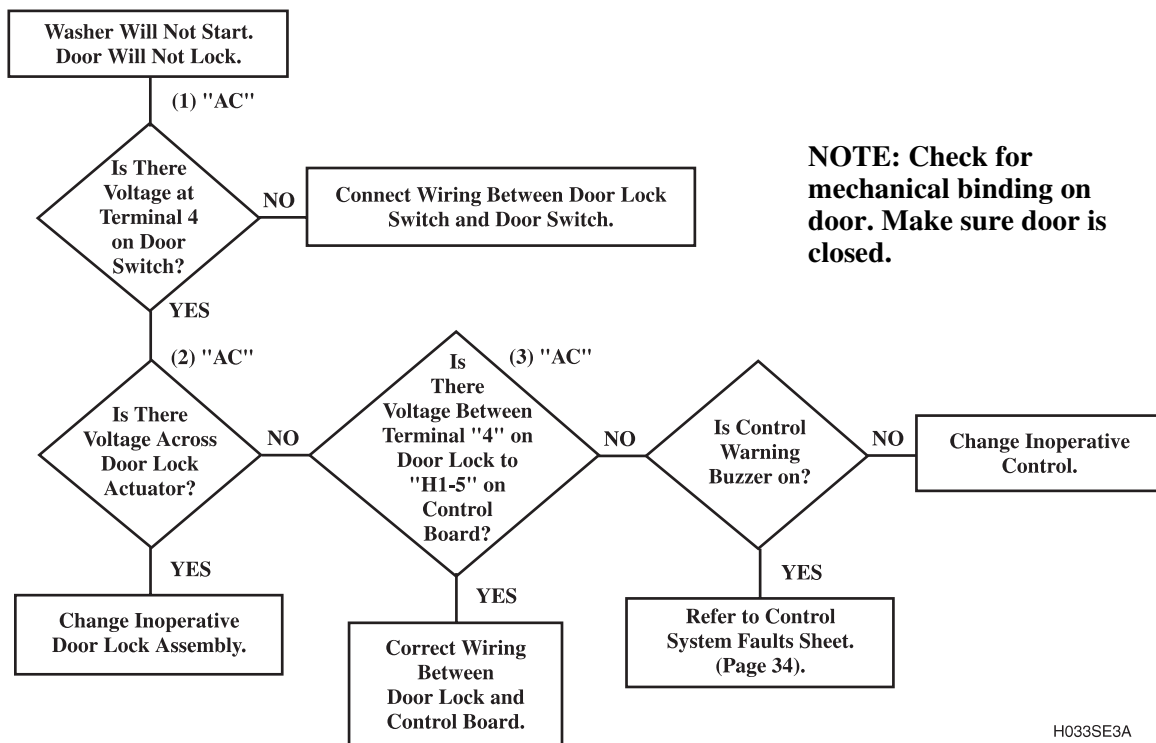
## WASHER WILL NOT START (Door Switch Analysis)



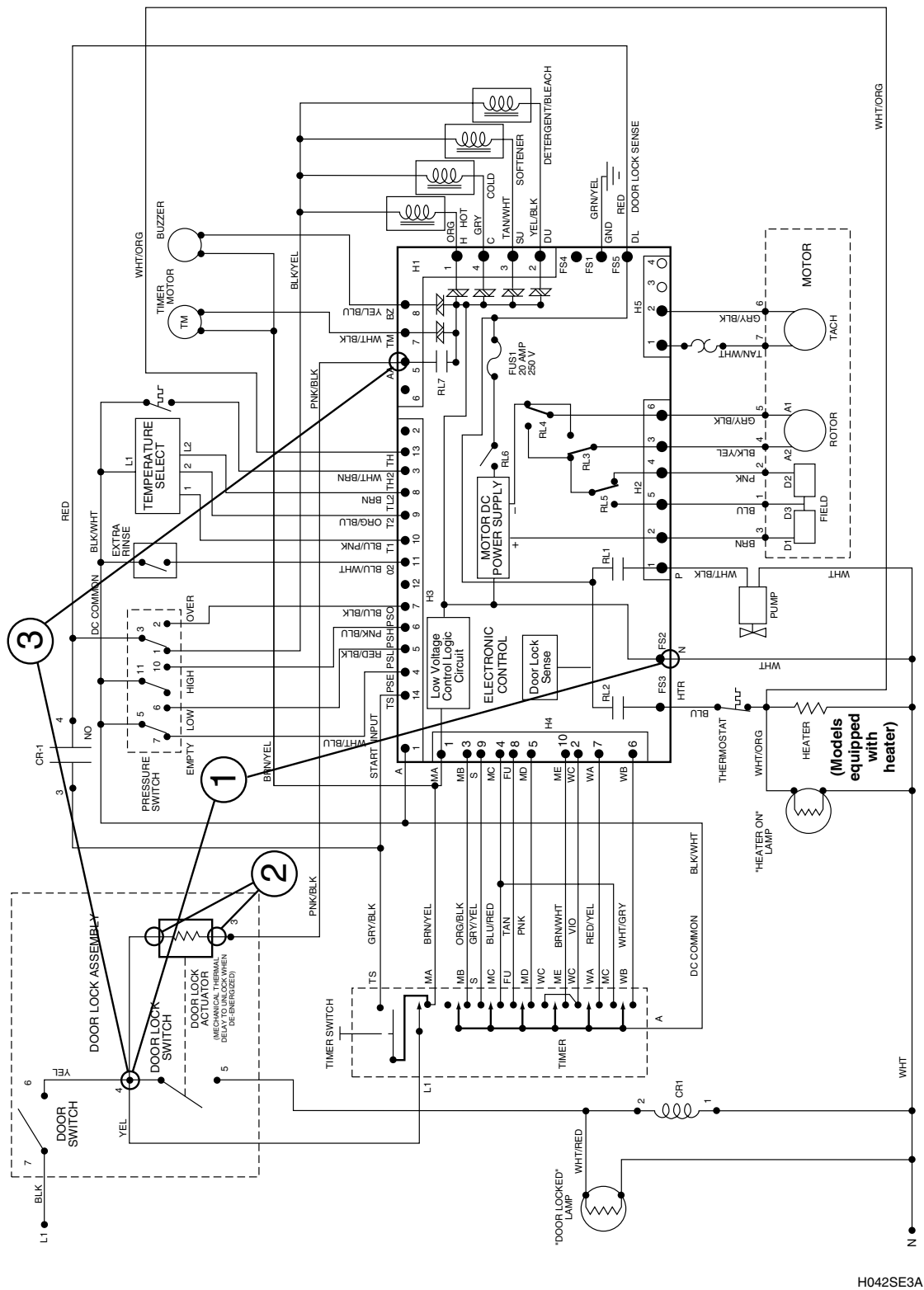
|  |                                     |
|--|-------------------------------------|
|   | <h2 style="margin: 0;">WARNING</h2> |
| <p><b>To reduce the risk of electric shock, fire, explosion, serious injury or death:</b></p> <ul style="list-style-type: none"> <li><b>Disconnect electric power to the washer before servicing.</b></li> <li><b>Never start the washer with any guards/panels removed.</b></li> <li><b>Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.</b></li> </ul> |                                     |
| <small>W003</small>  |                                     |

## 2. WASHER WILL NOT START (Door Lock Switch Analysis)

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



## WASHER WILL NOT START (Door Lock Switch Analysis)





## WARNING

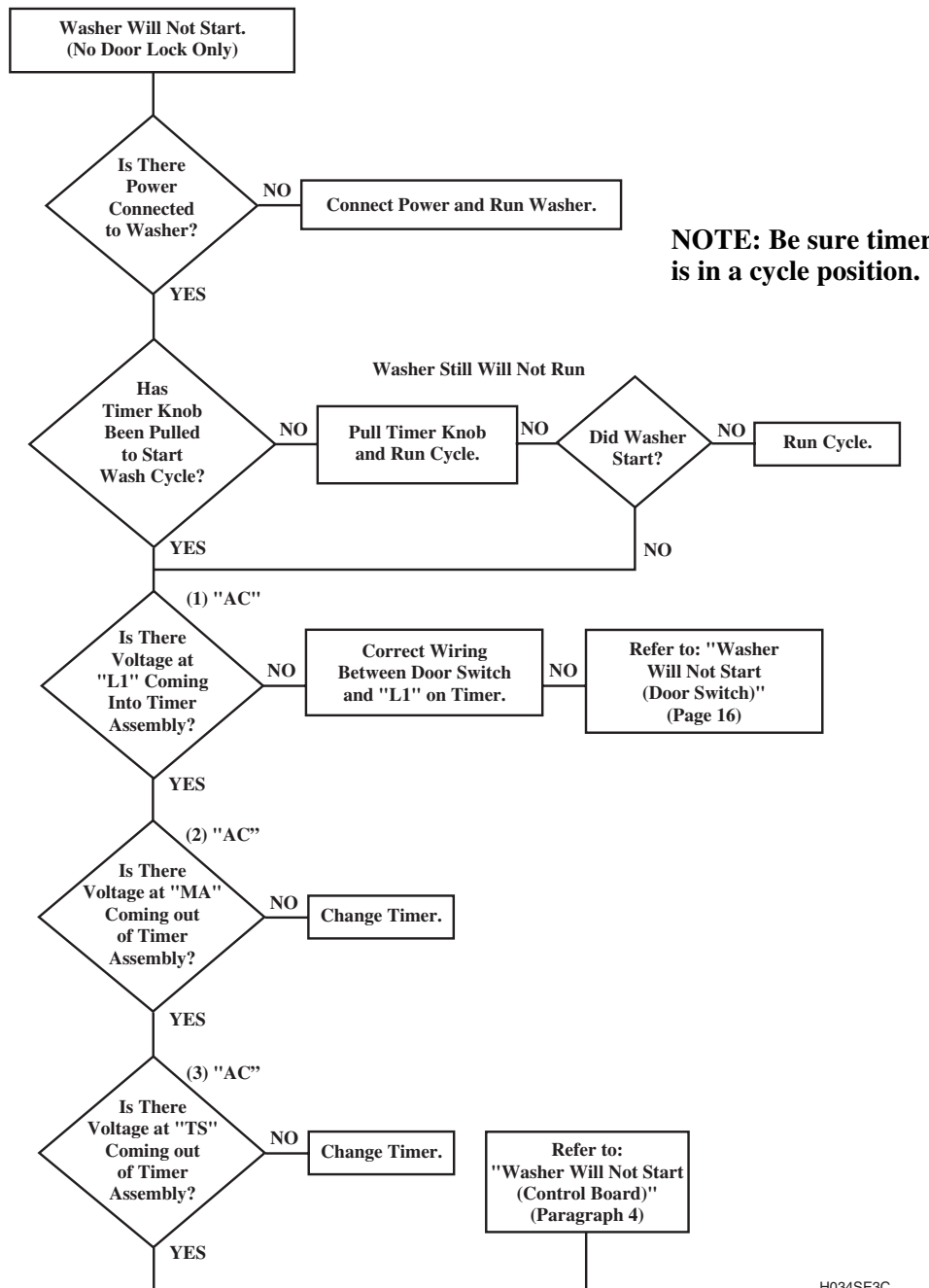
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

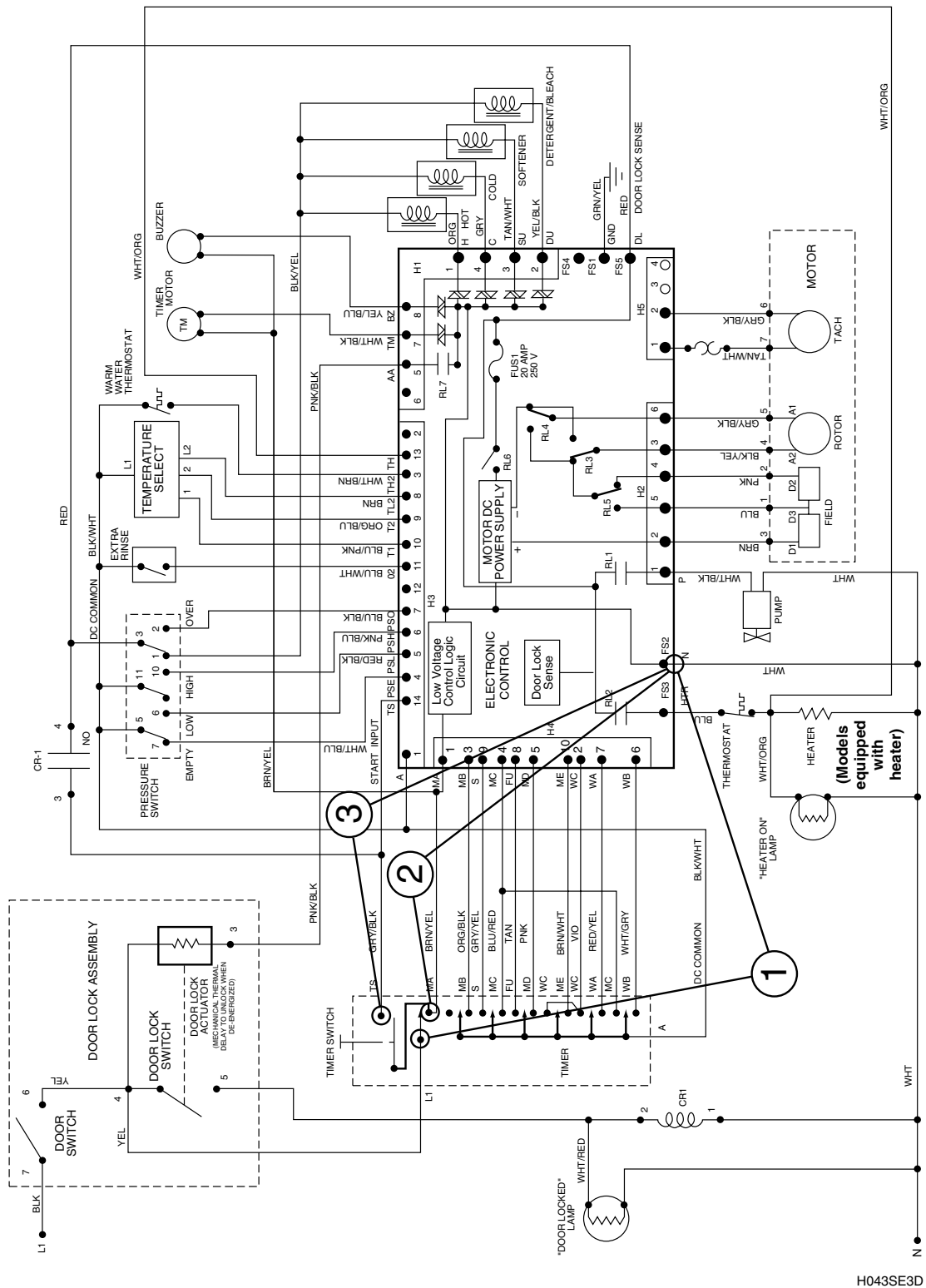
### 3. WASHER WILL NOT START (Timer)

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



H034SE3C

## WASHER WILL NOT START (Timer)





## WARNING

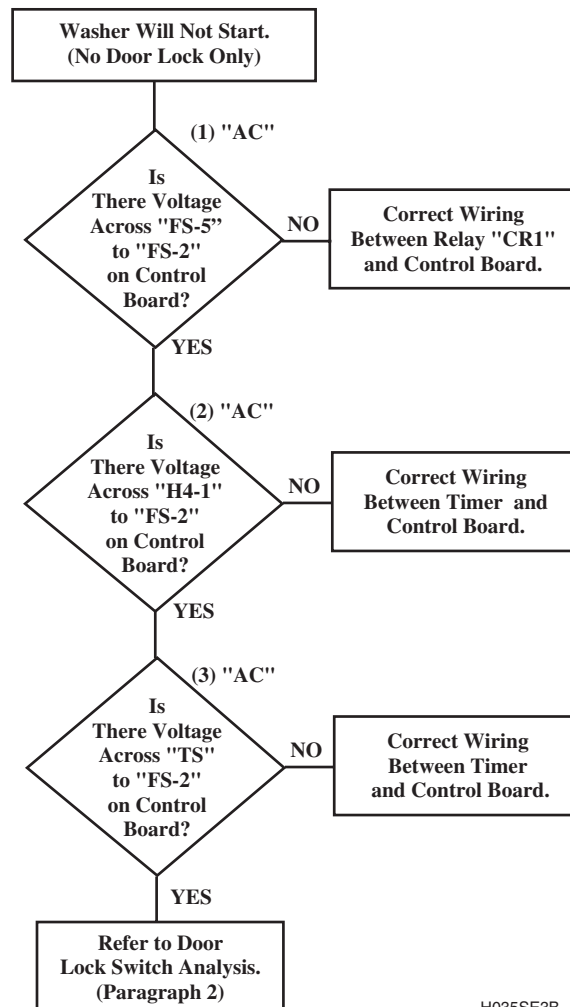
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

### 4. WASHER WILL NOT START (Control Board)

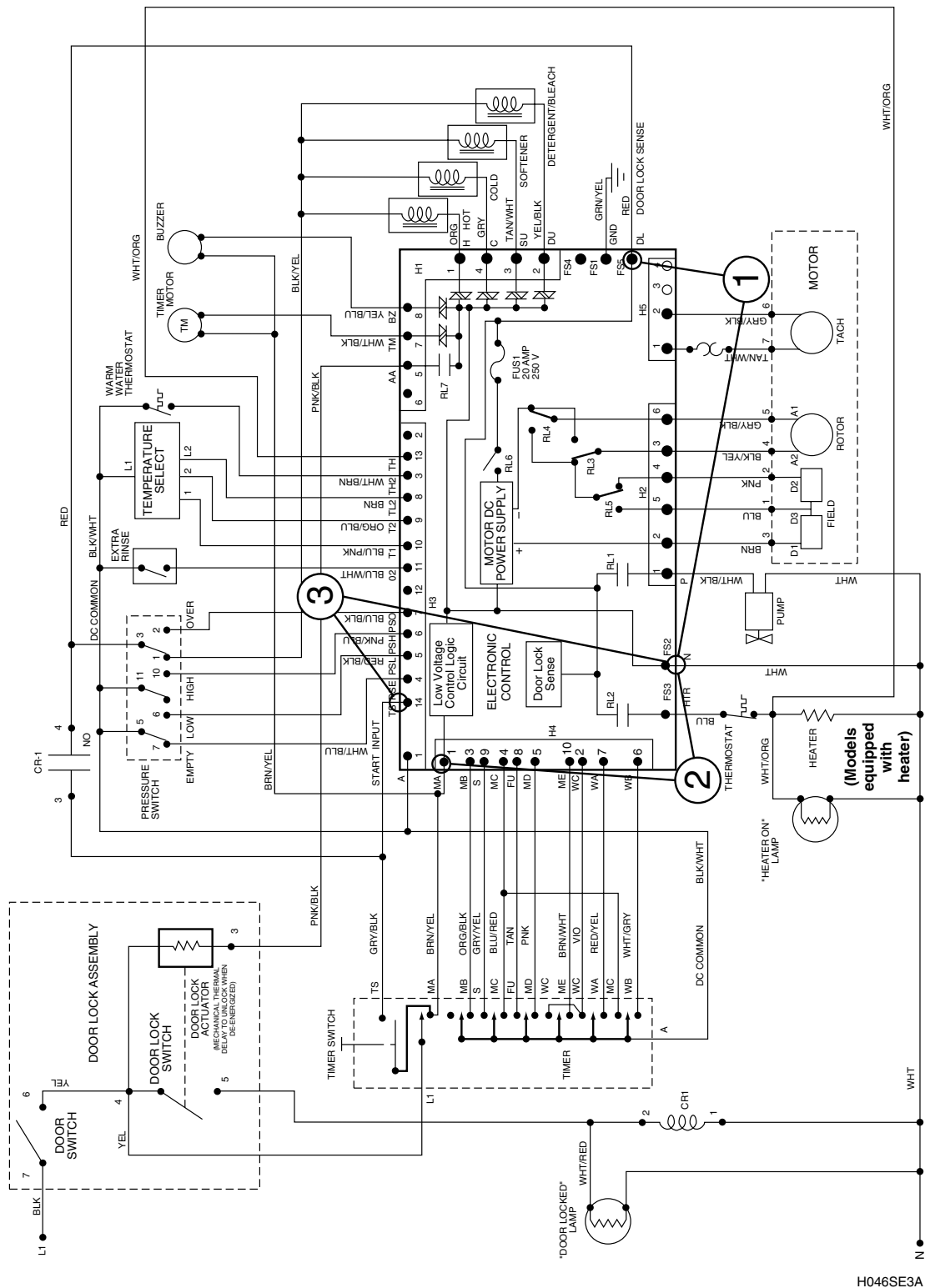
**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.




H035SE3B



## WASHER WILL NOT START (Control Board)





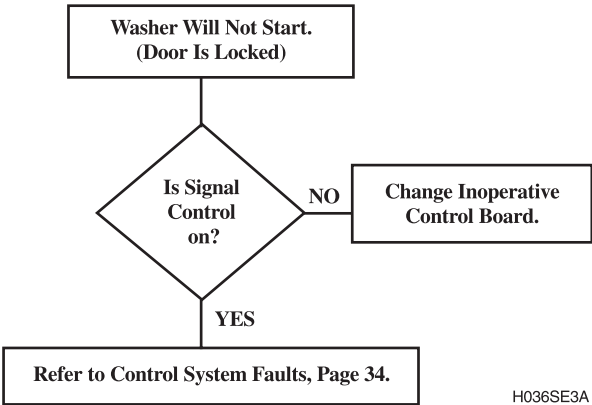
# WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

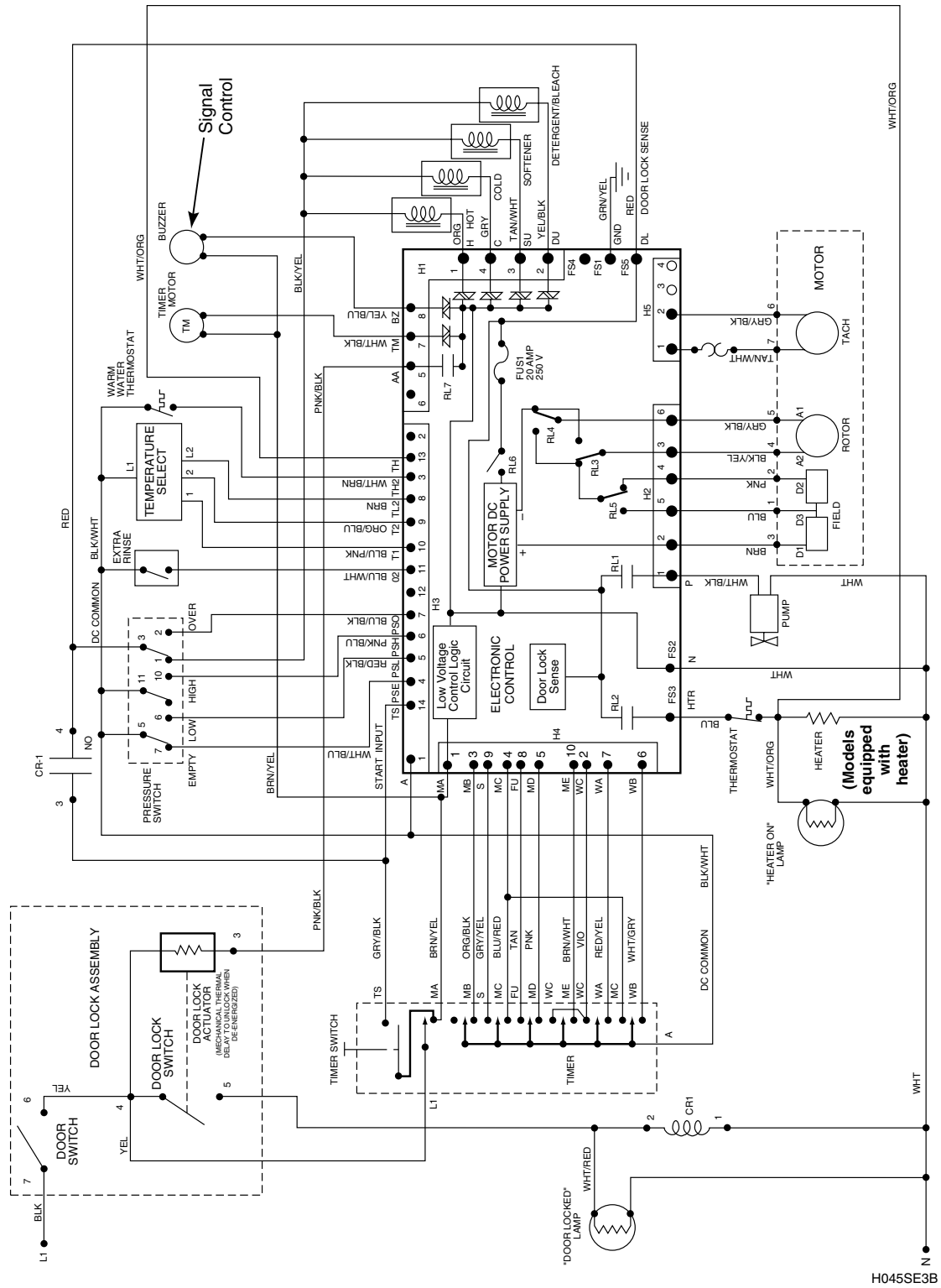
- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

5. WASHER WILL NOT START (Control Board)



## WASHER WILL NOT START (Control Board)





## WARNING

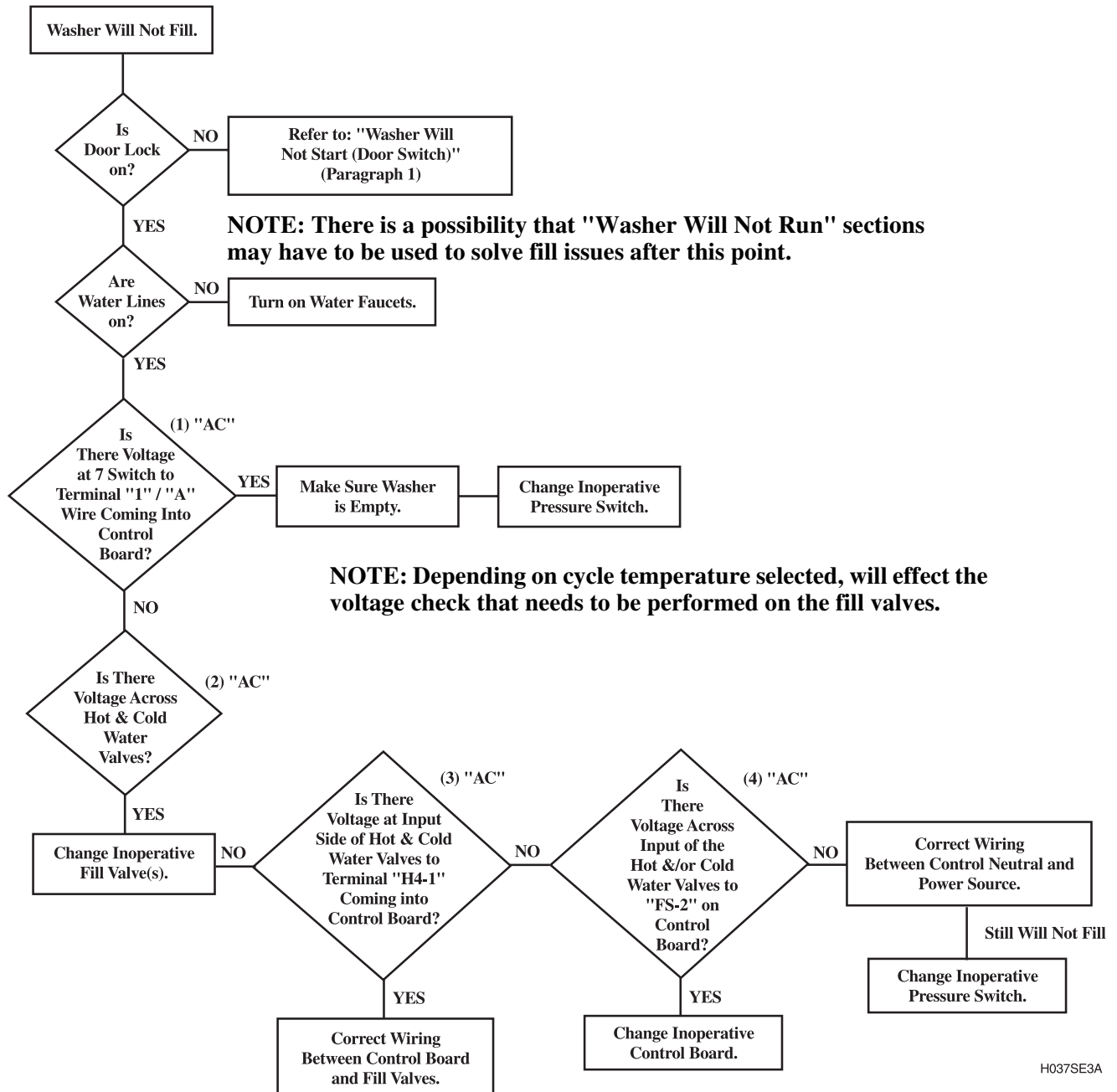
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

### 6. WASHER WILL NOT FILL

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



H037SE3A





## WARNING

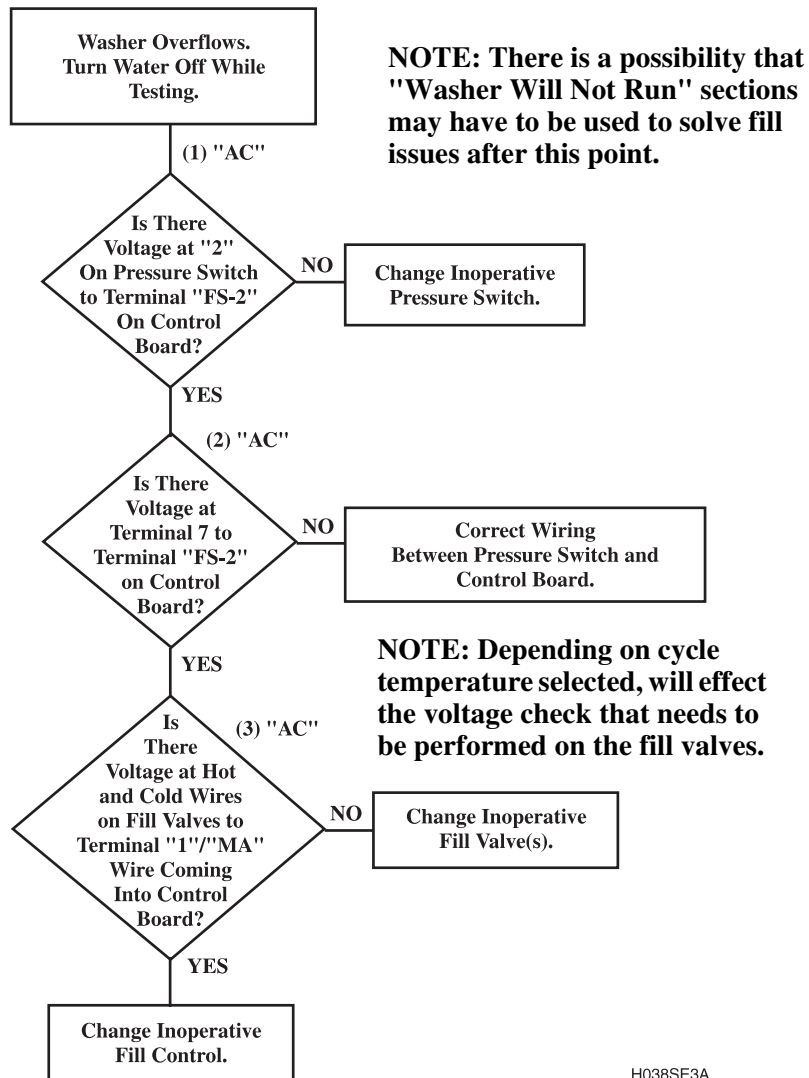
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003


### 7. WASHER OVERFLOWS

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



H038SE3A





# WARNING

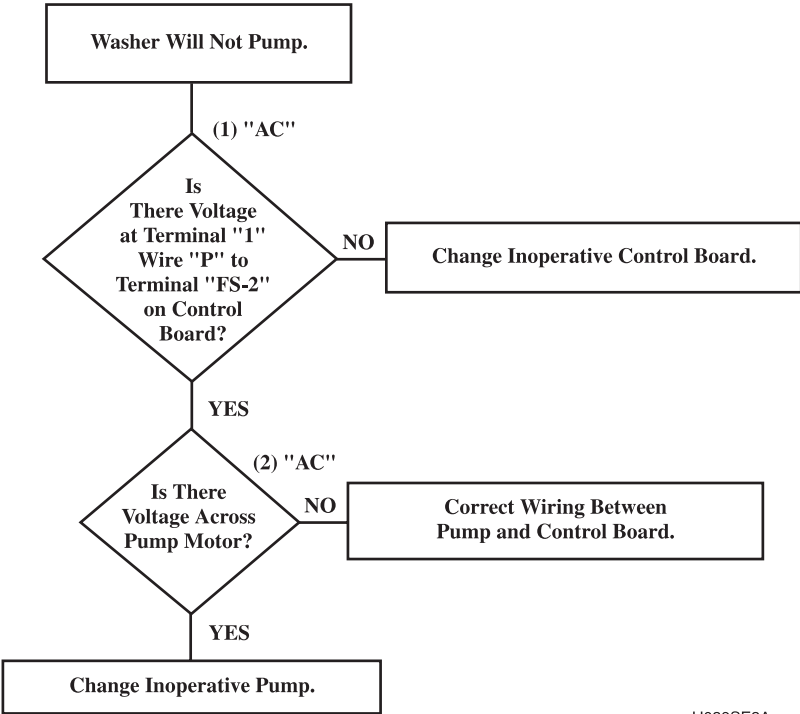
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

8. WASHER WILL NOT PUMP

**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.



H039SE3A







## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

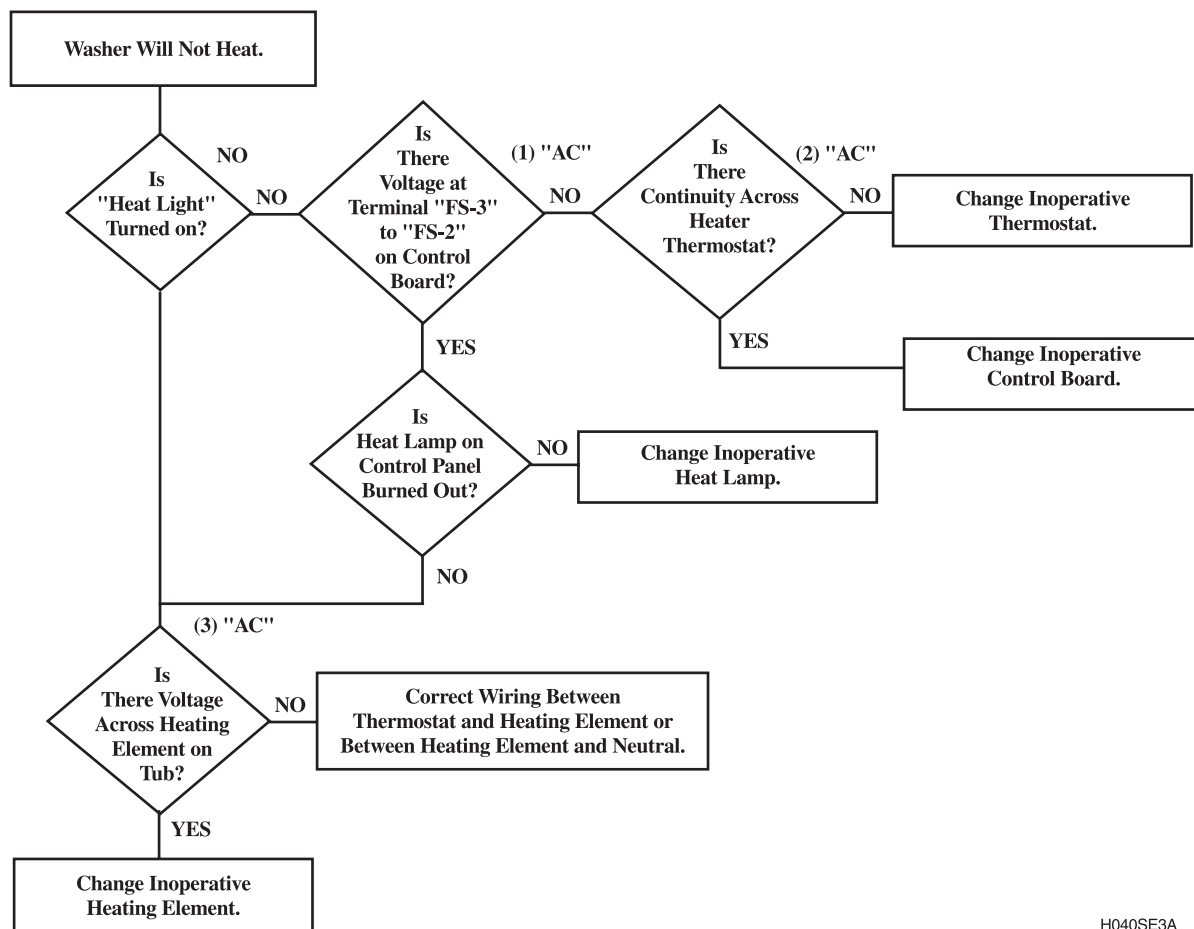
- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

### 9. WASHER WILL NOT HEAT (Models Equipped With Heater)

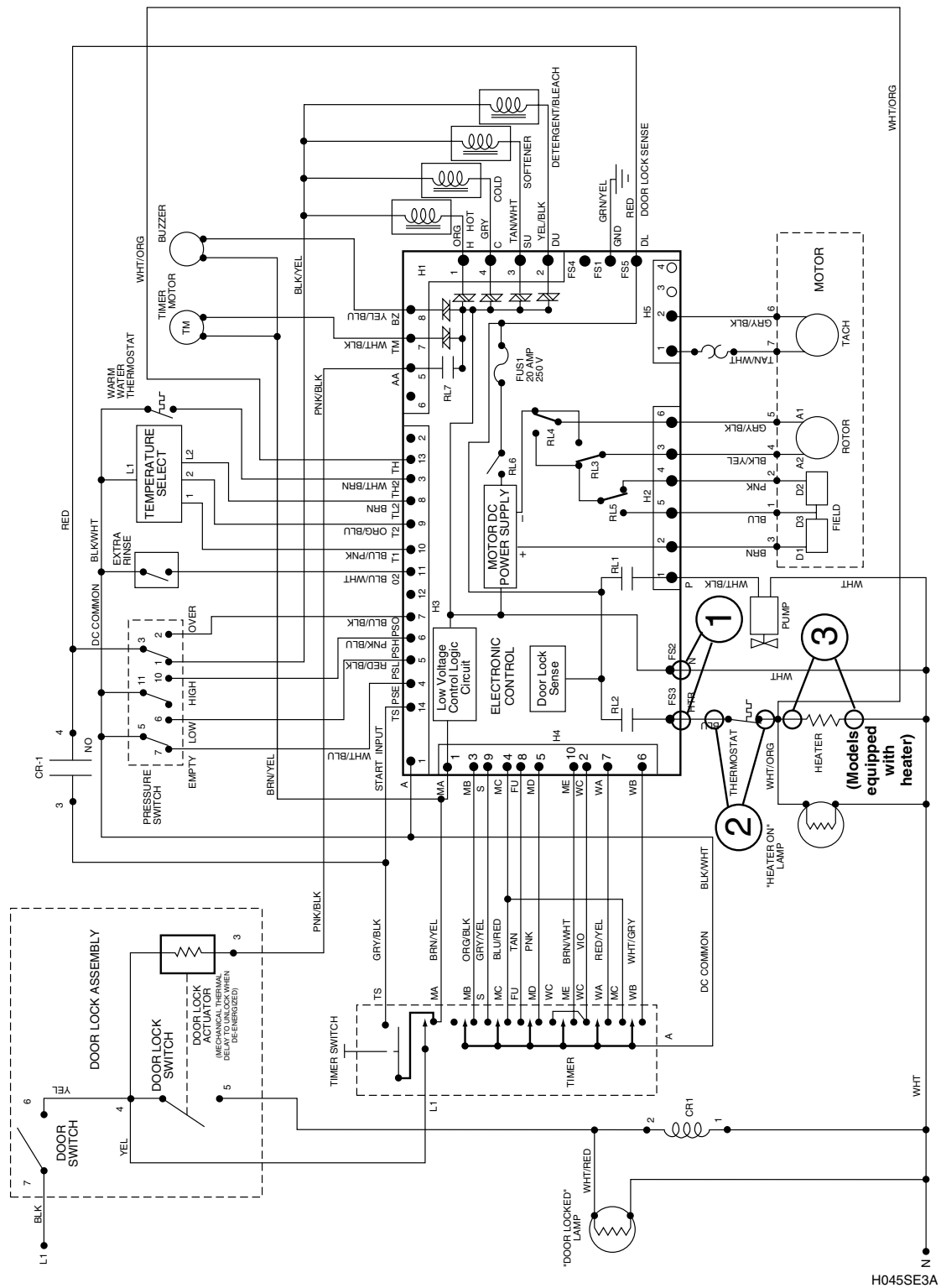
**NOTE:** If power is disconnected and reconnected, timer knob must be pulled out to energize washer electrical system.

**NOTE:** In this section make sure input water temperature is lower than temperature being selected for wash cycle.



H040SE3A

# WASHER WILL NOT HEAT (Models equipped with heater)





## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

## Control System Faults

Shown below are the system faults that will cause control to shut down and sound the BUZZER continuously until electrical power to washer is turned off.

| INOPERATIVE CONDITION   | SERVICE CORRECTION  |
|---|---|
| Triac in motor control board shorted.   | Change control board. Check motor.  |
| Motor tachometer feedback signal circuit open.                                  | Correct wiring between control board and motor. Change motor.                               |
| Motor circuit fuse blown.   | Change "FUS1" on control board and check washer cylinder. Motor for mechanical binding.     |
| Motor fails to spin up to correct speed in predetermined time.                  | Check washer cylinder. Motor for mechanical binding. Change motor.                          |
| Control door lock relay contact failure.  | Refer to " <i>Washer Will Not Start</i> " (Door lock switch analysis). Refer to paragraph 2 |
| Washer tries to agitate for more than 40 minutes after water level is attained. | Check wiring to timer. Check voltage at timer. Change timer.                                |

## Washer "DC" Motor Functions

### Agitate

For agitate, the "DC" current will flow through the full field (D1, D2) of motor. The washer agitation is produced by reversing polarity of the rotor in motor. This polarity switching takes place on control board.

One direction RL3 and RL4 are not operated.

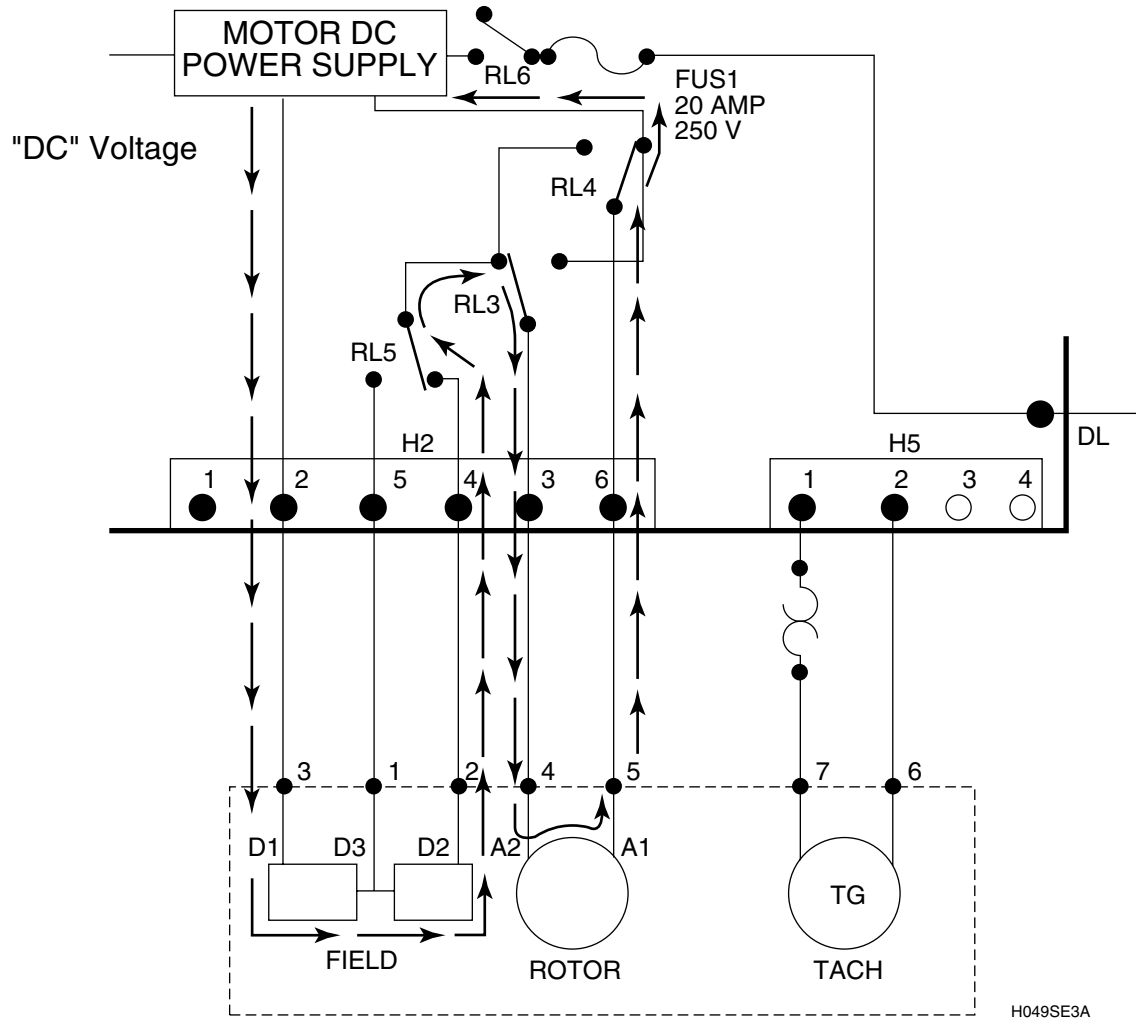
The other direction RL3 and RL4 are operated.

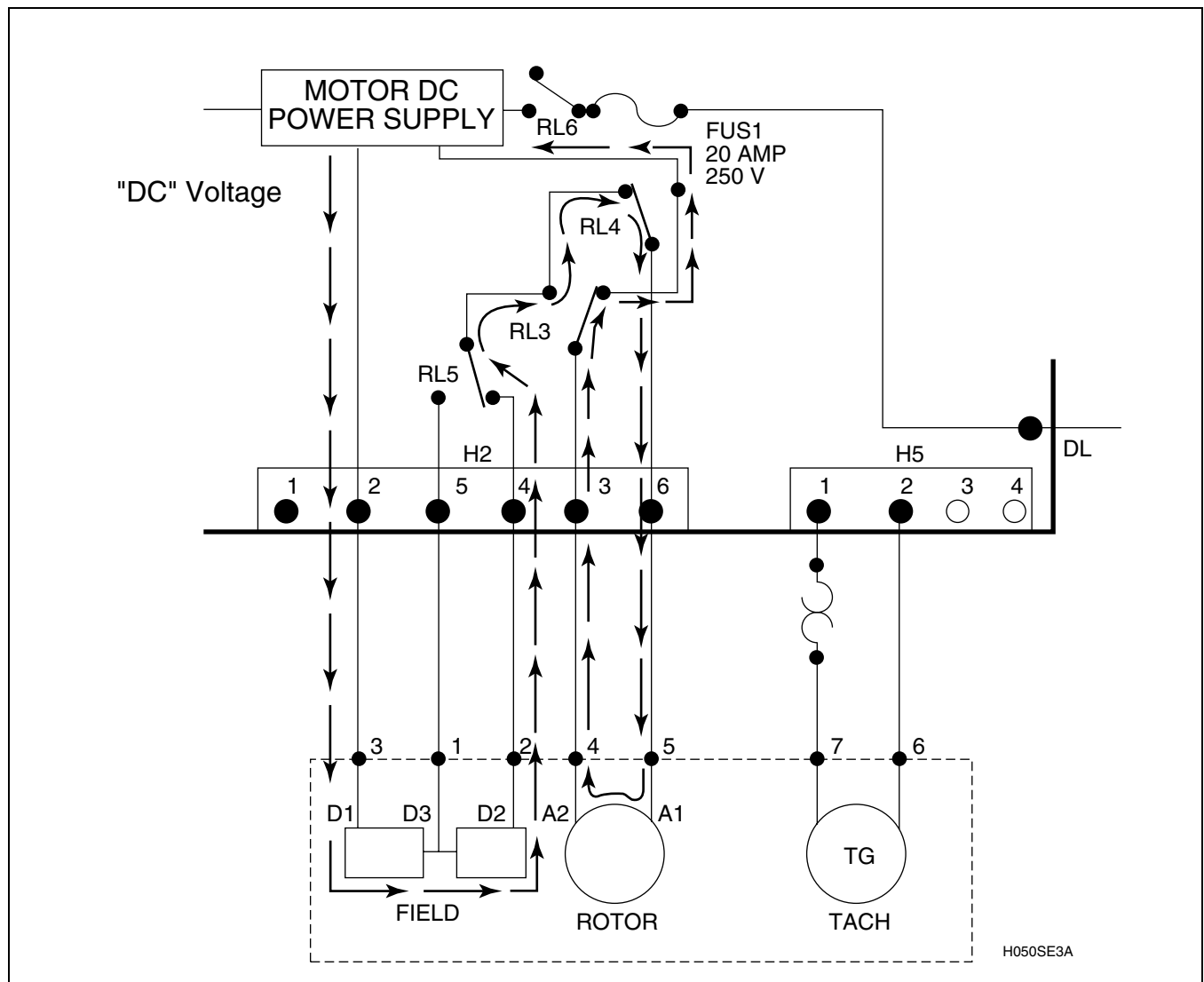
Refer to wiring schematics on following pages.

### Spin

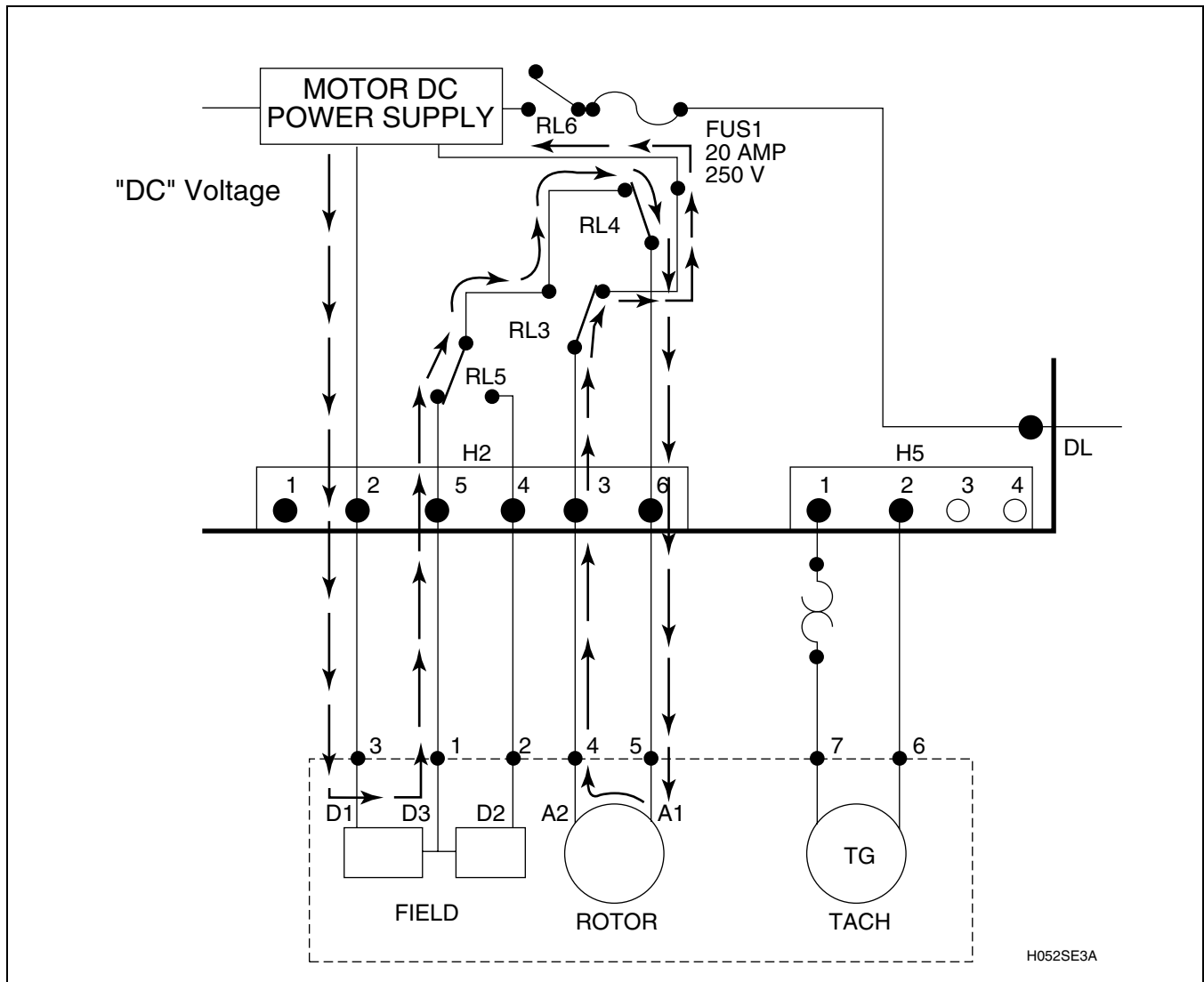
For spin (0 - 650 rpm), the "DC" current will flow through the full field (D1, D2) of motor. For high speed spin (+ 650 rpm), the "DC" voltage will flow through half the field (D1, D3) of motor.

Refer to wiring schematic on following pages.

**Motor Assembly**



**Motor Assembly**

**Motor Assembly**

# Section 4

## Grounding



### WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

#### 10. WALL RECEPTACLE POLARITY CHECK

Refer to *Figure 1*.

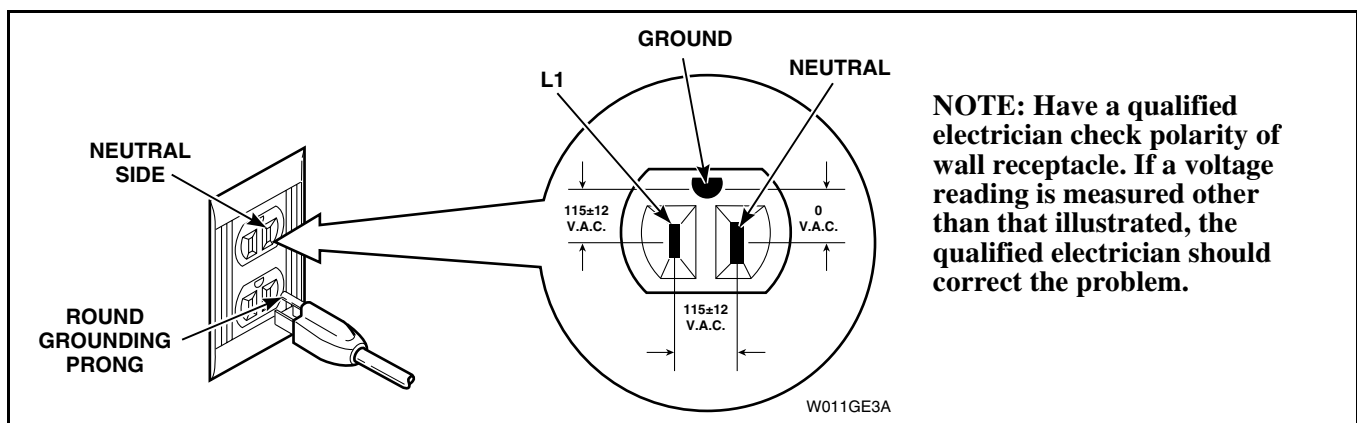


Figure 1

#### 11. GROUND TO ELECTRIC PUMP MOTOR AND TO DRIVE MOTOR

Refer to *Figure 2*.

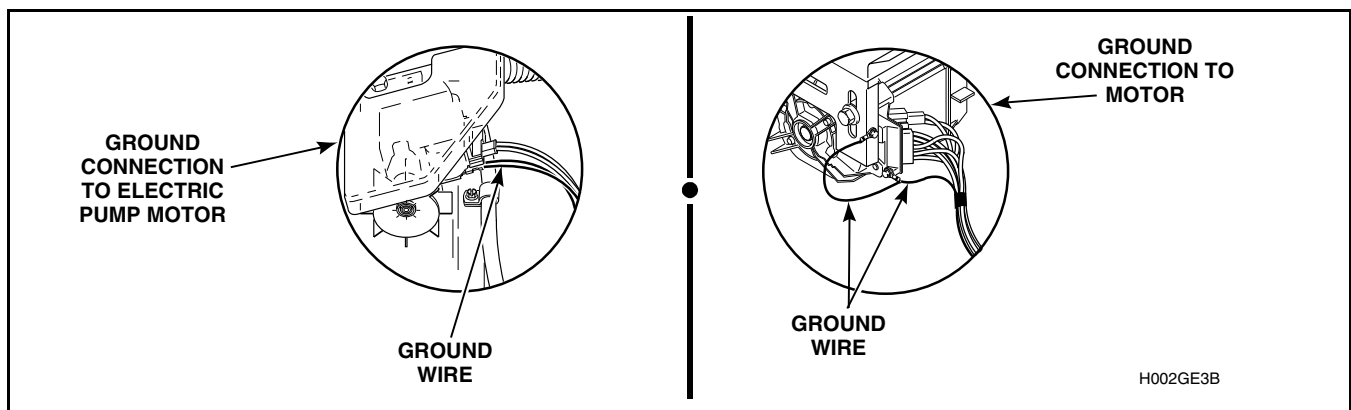


Figure 2





## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

### 12. POWER CORD TO CABINET TOP, CABINET TOP TO CONTROL HOOD REAR PANEL, CONTROL HOOD REAR PANEL TO CONTROL RELAY

Refer to *Figure 3*.

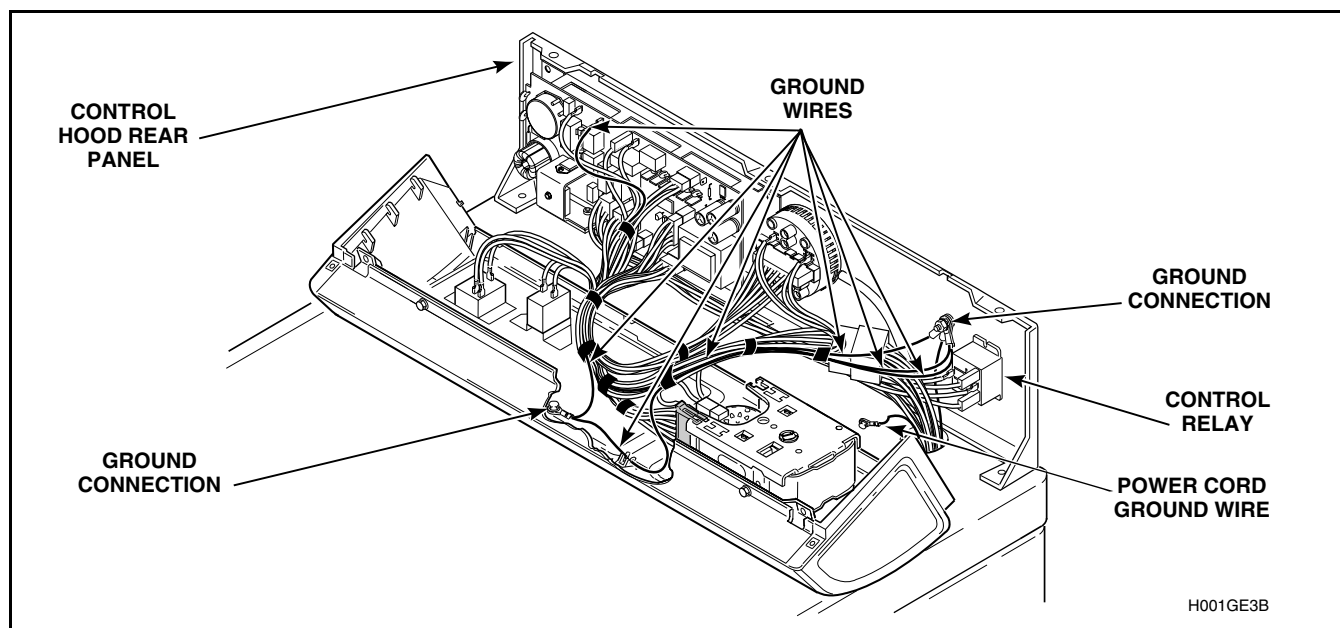


Figure 3

### 13. GROUND TO CABINET

Refer to *Figure 4*.

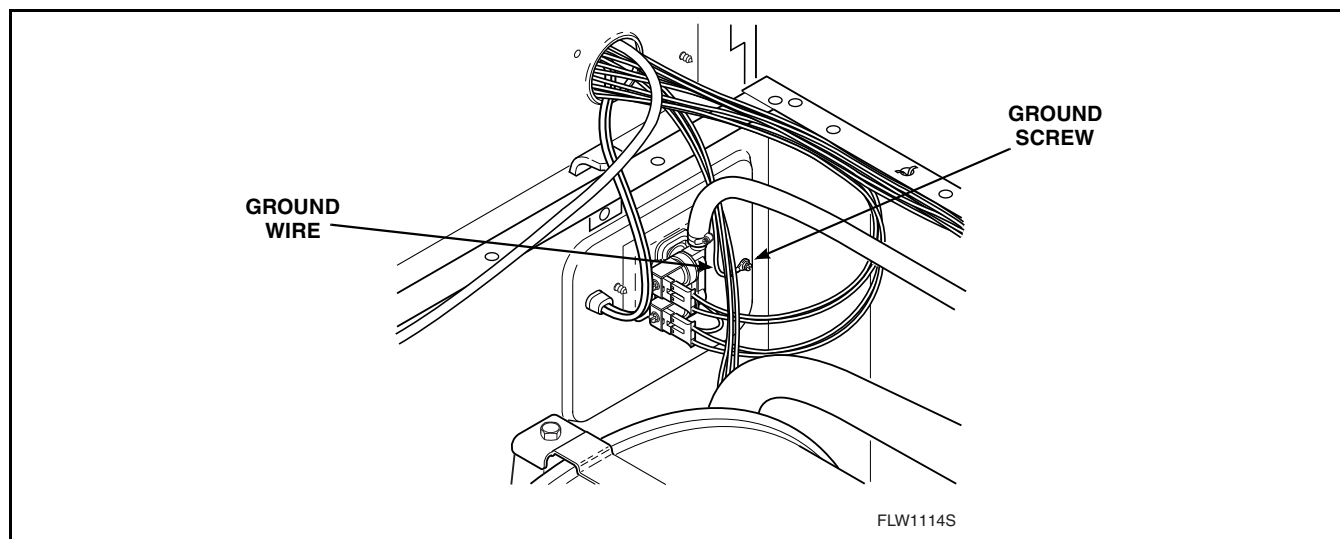


Figure 4

# Section 5

## Service Procedures



### WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

**IMPORTANT:** When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

#### 14. CONTROL HOOD ASSEMBLY

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Carefully remove bottom front of hood from clips on cabinet top.

- d. Disconnect wires from components and carefully remove components from hood assembly.

**NOTE:** Refer to wiring diagram when rewiring component parts.

#### TO REMOVE CONTROL HOOD END PANELS

Remove two screws holding each end panel to control mounting plate. Refer to *Figure 6*.

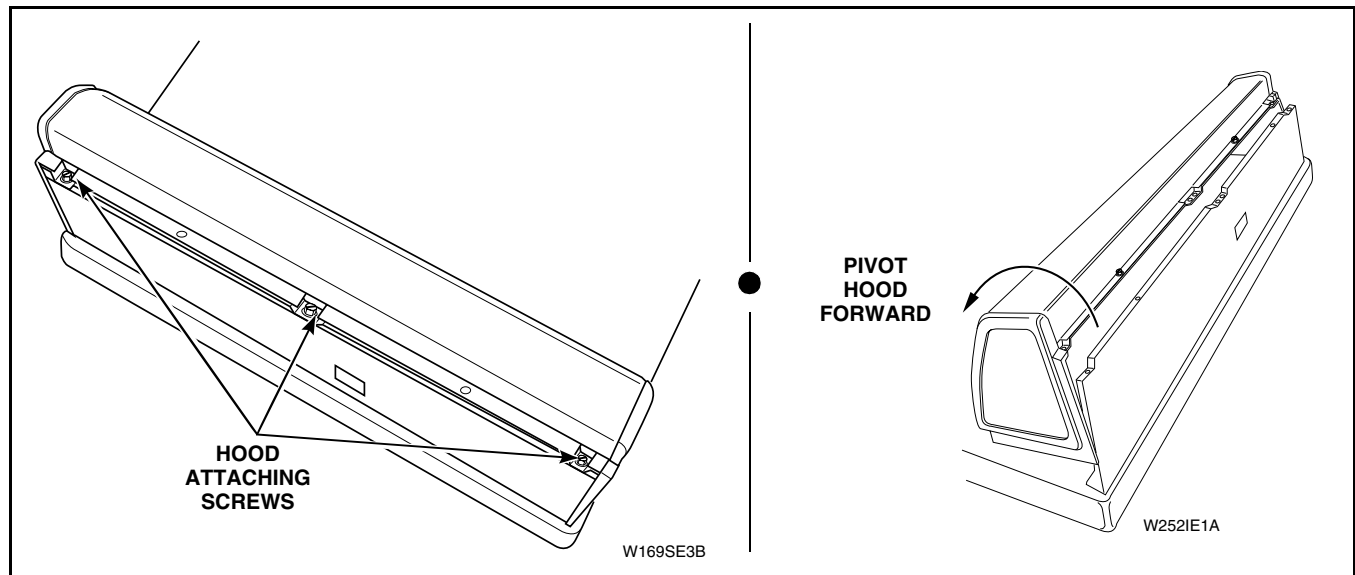


Figure 5

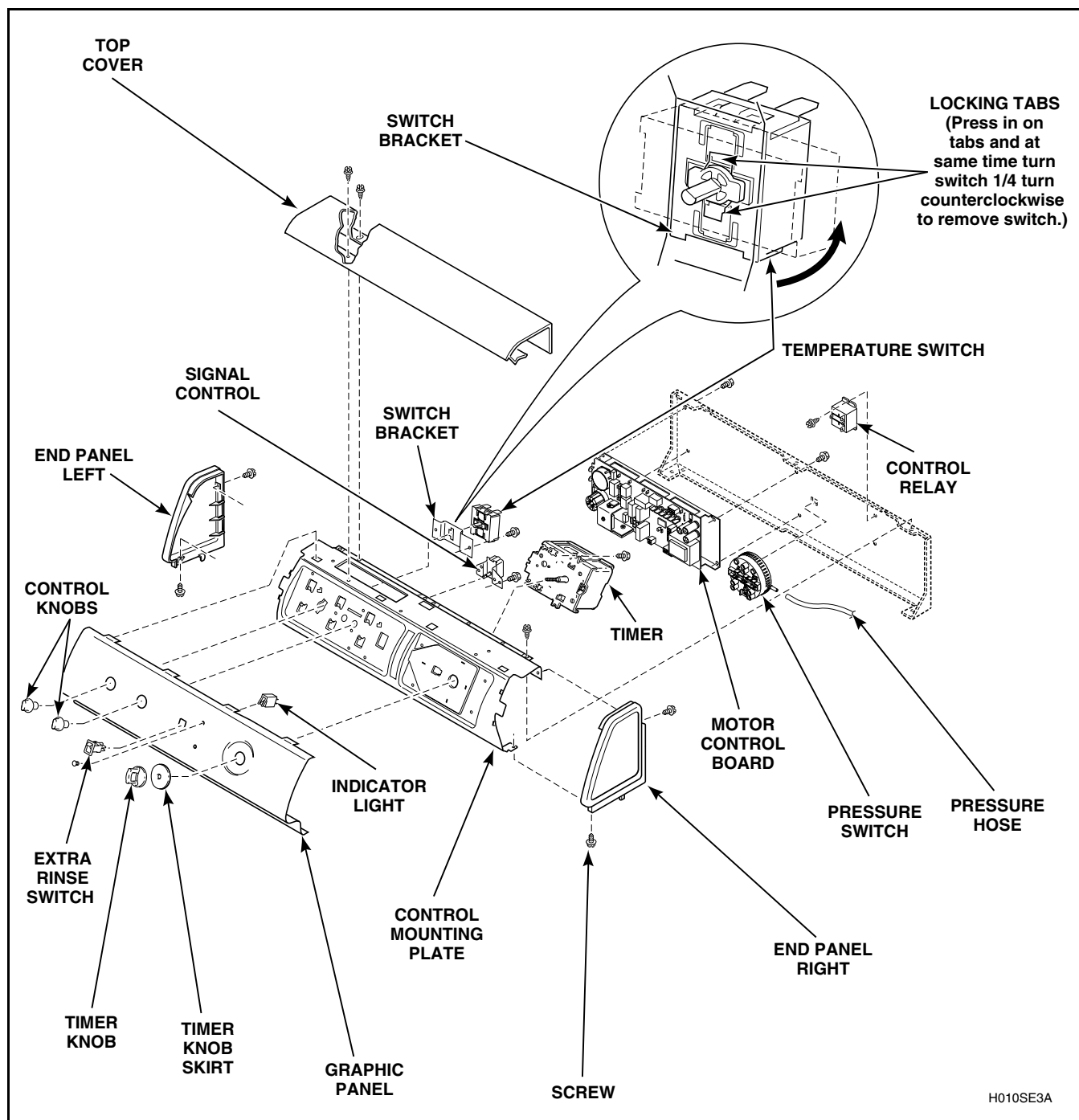


Figure 6



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

### 15. TIMER

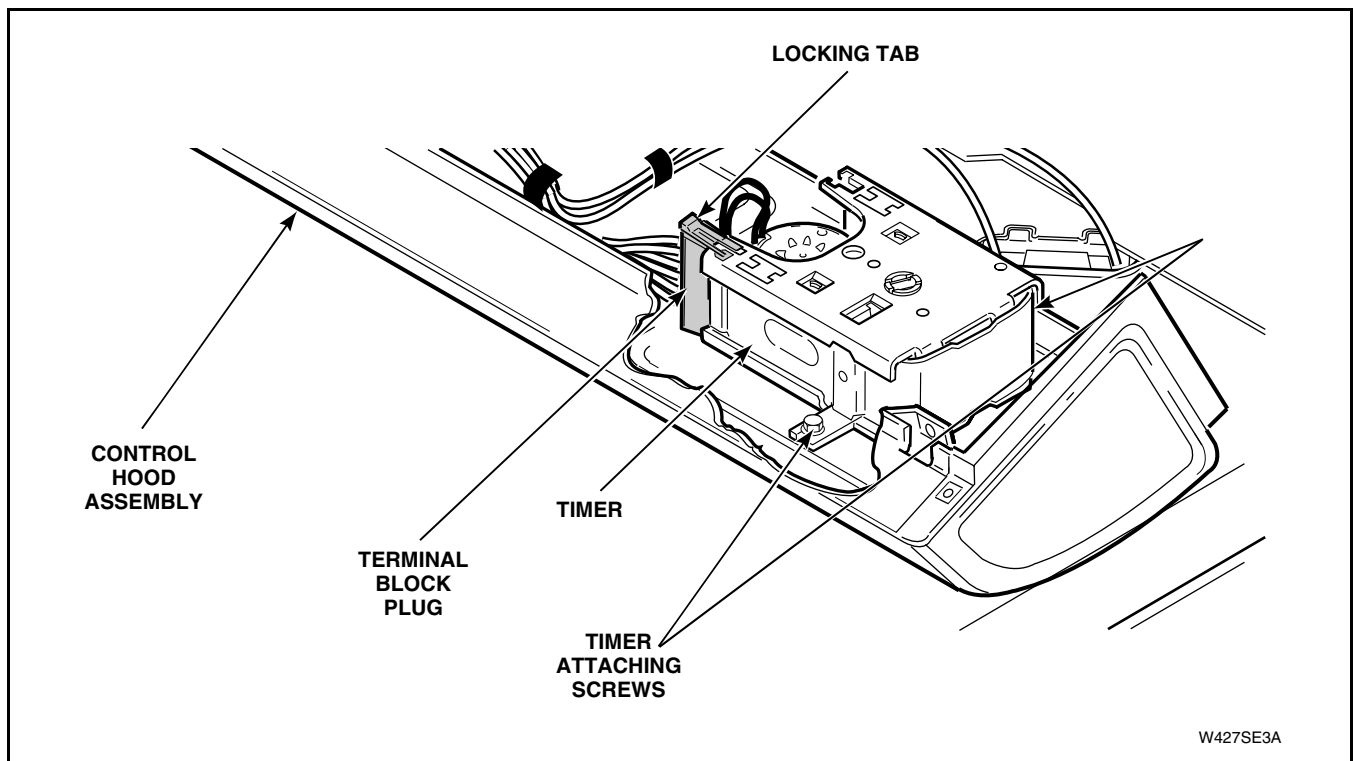
- Unscrew timer knob from timer shaft (right hand thread), then remove timer knob skirt.
- Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- Remove two screws holding timer to control hood mounting plate. Refer to *Figure 7*.

- Disengage wire harness terminal block plugs from timer by pressing in on movable locking tabs (located on each side of terminal block plug) and pulling away from timer. Refer to *Figure 7*.

**IMPORTANT:** To avoid an open circuit, **DO NOT** pull on terminal block wires when removing blocks from timer as this could damage wires or terminal crimping.

Before attaching wire harness terminal blocks to timer, make sure all male terminals on timer are straight and are capable of accepting terminals from wire harness terminal blocks.

**NOTE:** DO NOT attempt to repair timer.



W427SE3A

Figure 7



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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- f. Seat horizontal and vertical tabs on front plate of timer completely into slots on control mounting plate. Refer to *Figure 8*.
- g. Tighten attaching screws between 12 to 18 inch pounds (1.6 to 2.4 Nm).

**IMPORTANT:** To avoid timer damage, do not allow timer to be struck on corners, edges of frame, or on timer shaft.

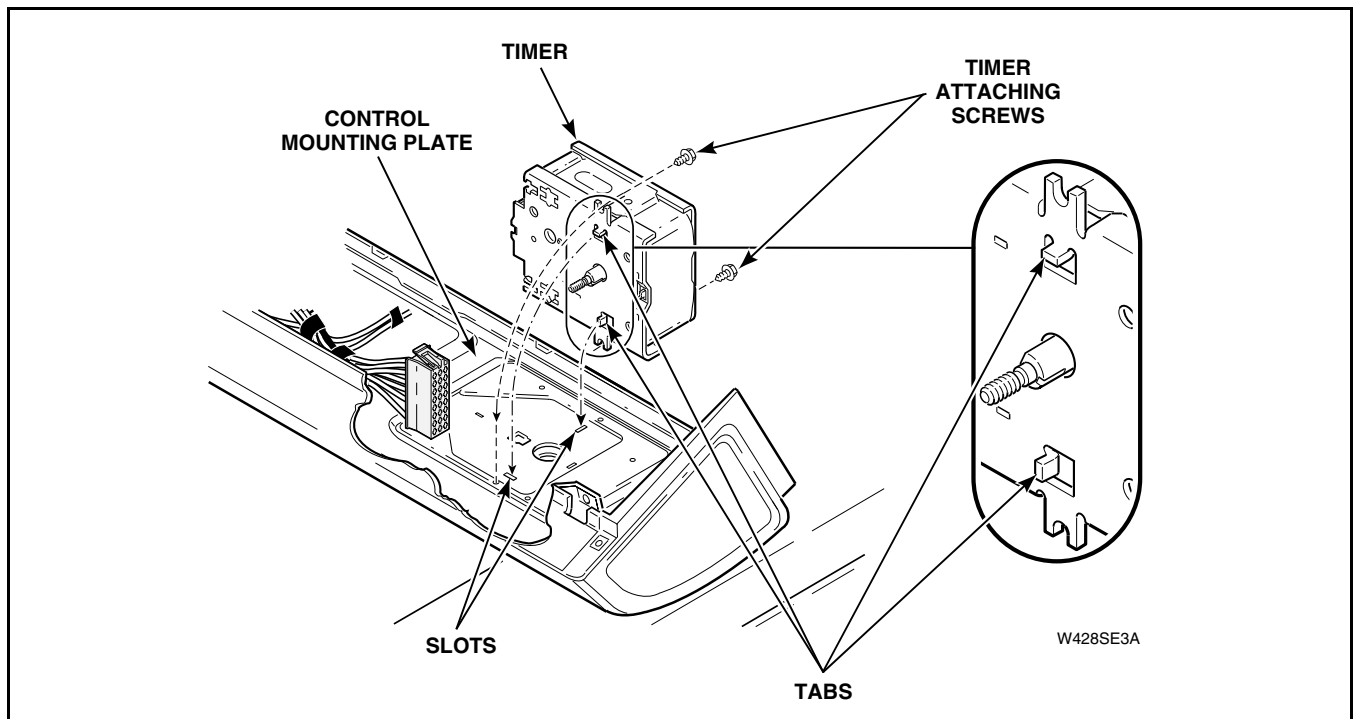


Figure 8



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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### 16. TEMPERATURE SWITCH

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Disconnect wires from switch terminals.

**NOTE: Refer to wiring diagram when rewiring switch.**

- d. Refer to *Figure 6* for switch removal.
- e. Press in on two locking tabs and at the same time turn switch 1/4 turn counterclockwise to remove switch from switch bracket. Refer to *Figure 6*.

**IMPORTANT: Before removing switch, note switch position in relation to switch bracket so switch can be reinstalled in same position.**

**NOTE: When installing switch, place switch tabs into cutout in switch bracket and turn switch clockwise to its full limit of travel, within the switch bracket opening, until both locking tabs snap into place.**

### 17. PRESSURE SWITCH

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Disconnect wires from pressure switch. Refer to wiring diagram when rewiring switch.
- d. Refer to *Figure 6* for switch removal.

**IMPORTANT: Before connecting hose to pressure switch, blow air through pressure hose to remove any condensation that may have accumulated in hose.**

### 18. EXTRA RINSE SWITCH

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Carefully remove bottom front of hood from clips on cabinet top.
- d. Disconnect wires from switch terminals.

**NOTE: Refer to wiring diagram when rewiring switch.**

- e. Remove extra rinse switch by pressing in on locking tabs and pushing switch out through front of graphic panel. Refer to *Figure 6*.

### 19. CONTROL RELAY

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Disconnect wires from the control relay.

**NOTE: Refer to wiring diagram when rewiring control relay.**

- d. Remove two screws holding relay to control hood rear panel. Refer to *Figure 6*.



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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### 20. MOTOR CONTROL BOARD

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Disconnect harness connectors from control board.

**NOTE: Refer to wiring diagram when rewiring control board.**

**IMPORTANT: Remove control board and metal mounting plate as a unit. Handle control board by the back metal plate. Do not contact control board with hands or metal objects. Place assembly in clean, dry area away from work area to avoid damage. Do not attempt field repair of the motor control board. Attempted repair or tampering with the control board will void its warranty.**

- d. Remove four screws holding motor control board to control hood rear panel. Refer to *Figure 6*.
- e. Remove control board and place in anti-static shipping material for return to manufacturer.

**IMPORTANT: It is important to take care when handling original control. It must be carefully placed in anti-static shipping material which was removed from new control. Warranty credit will not be issued if control is not wrapped properly.**

### 21. SIGNAL CONTROL

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Carefully remove bottom front of hood from clips on cabinet top.
- d. Disconnect wires from signal control terminals.

**NOTE: Refer to wiring diagram when rewiring signal control.**

- e. Remove control knob from switch shaft.
- f. Remove two screws holding signal control to control mounting plate. Refer to *Figure 6*.

### 22. DOOR LOCK INDICATOR LIGHT

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Carefully remove bottom front of hood from clips on cabinet top.
- d. Disconnect two wires from door lock indicator light.

**NOTE: Refer to wiring diagram when rewiring light.**

- e. Refer to *Figure 6* for light removal.



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 23. HEATER INDICATOR LIGHT (Models equipped with heater)

- a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- b. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- c. Carefully remove bottom front of hood from clips on cabinet top.
- d. Disconnect two wires from heater indicator light.

**NOTE: Refer to wiring diagram when rewiring light.**

- e. Refer to *Figure 6* for light removal.

### 24. GRAPHIC PANEL

- a. Unscrew timer knob from timer shaft (right hand thread), then remove timer knob skirt. Refer to *Figure 6*.
- b. Pull temperature switch knob and signal control knob off shafts.
- c. Remove door lock and heater indicator light lenses. Refer to *Figure 6*.
- d. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 5*.
- e. Pivot hood assembly forward on cabinet top. Refer to *Figure 5*.
- f. Carefully remove bottom front of hood from clips on cabinet top.
- g. Disconnect wires from components and carefully remove components from control mounting plate.

**NOTE: Refer to wiring diagram when rewiring component parts.**

- h. Remove extra rinse switch by pressing in on locking tabs and push switch out through front of graphic panel. Refer to *Figure 6*.
- i. Remove screws holding both end panels to control hood assembly. Refer to *Figure 6*.
- j. Bend tabs on graphic panel (located inside of control hood) straight out toward rear of hood.

- k. Carefully remove graphic panel off front of control mounting plate. Refer to *Figure 6*.

### 25. LOWER ACCESS PANEL

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 9*.
- b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

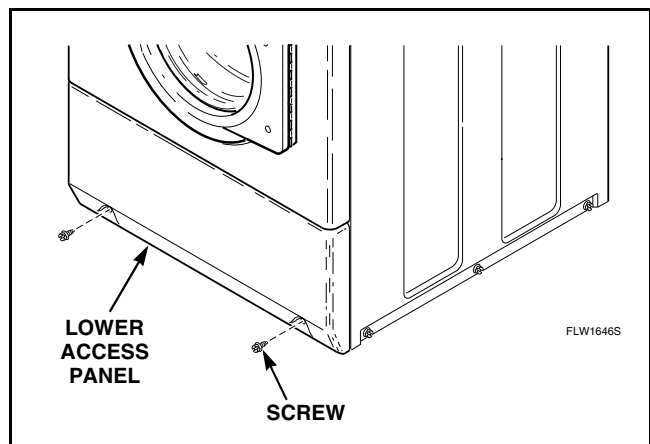


Figure 9





## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 26. ELECTRIC DRAIN PUMP

- While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 9*.
- Gently lower the access panel to disengage panel locators from bottom edge of front panel.
- Loosen hose clamps and remove three hoses connected to electric drain pump (outer-tub-to-pump hose, vent hose and drain hose). Refer to *Figure 10*.
- Remove three mounting screws holding pump to base.

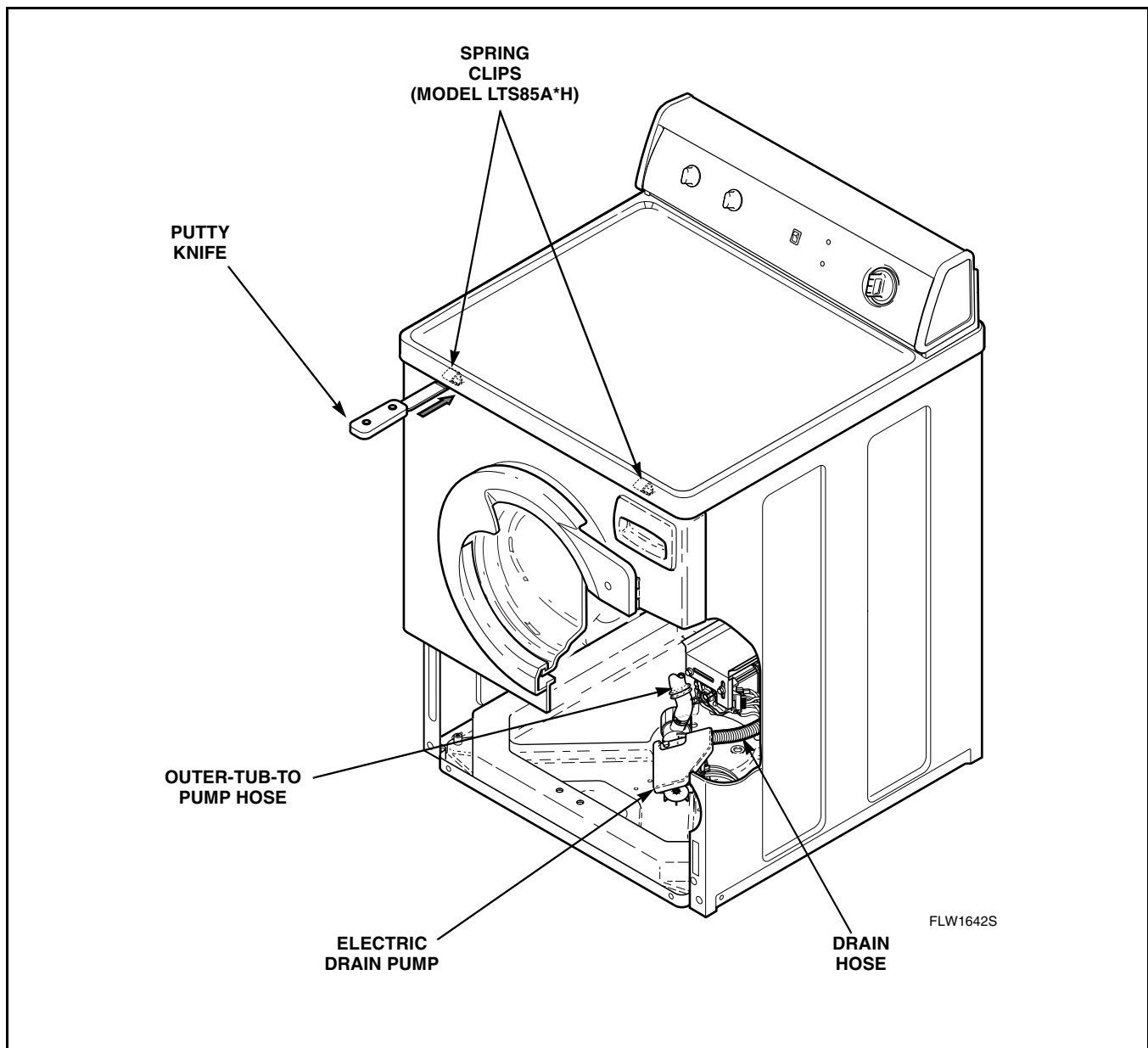


Figure 10



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 27. FRONT PANEL

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 9*.
- b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
- c. Model LTS85A\*H only:

**NOTE:** Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to *Figure 10*.

- (1) Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to *Figure 10*.
- (2) Push in on putty knife and at the same time lift front edge of cabinet top. Repeat for opposite side.
- (3) If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE:** To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 11*.

- d. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 12*.
- e. Remove two screws on top right side of front panel (above dispenser drawer), top left two screws and then bottom two front corner screws. Refer to *Figure 13*.
- f. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 16*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

(continued on Page 45)

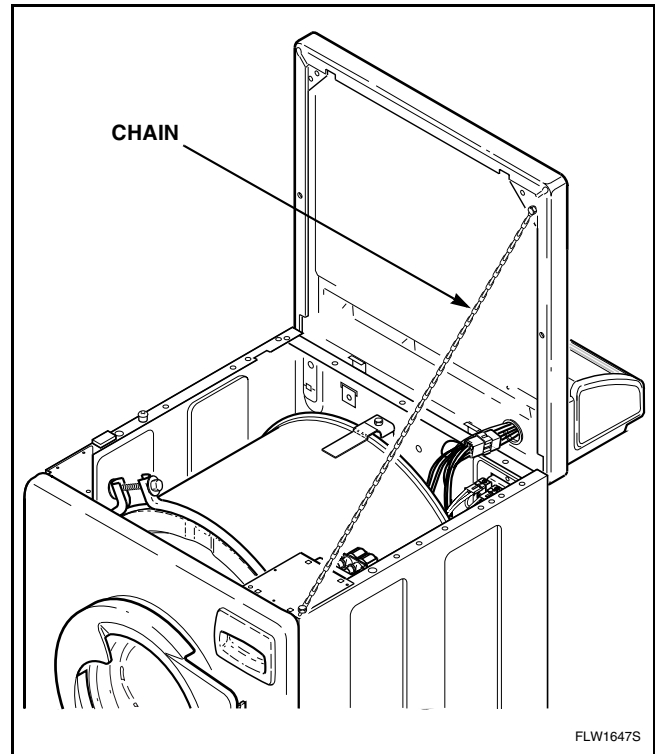


Figure 11



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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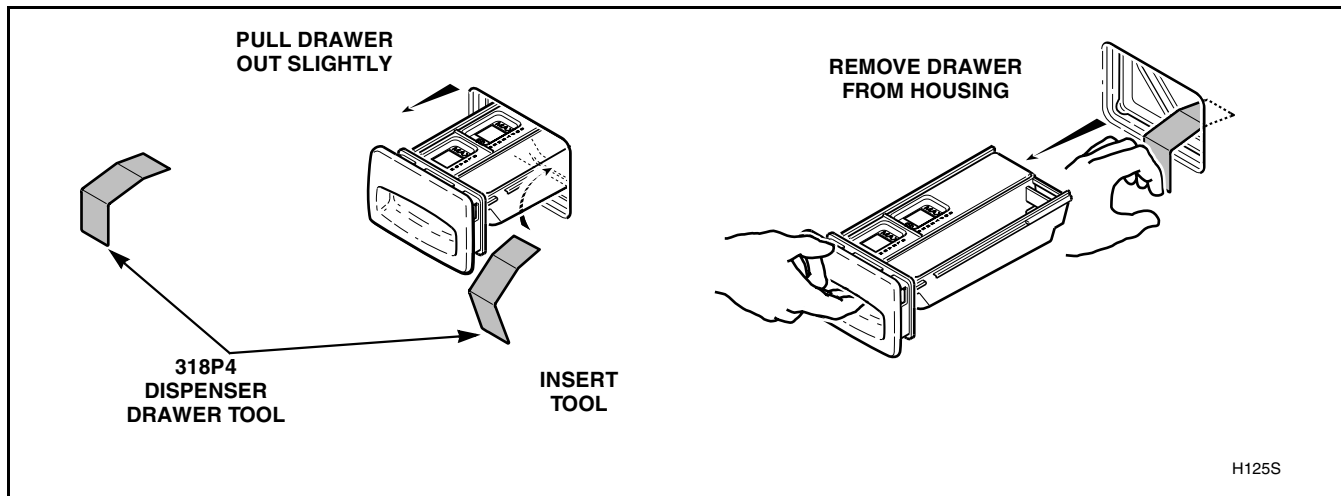


Figure 12

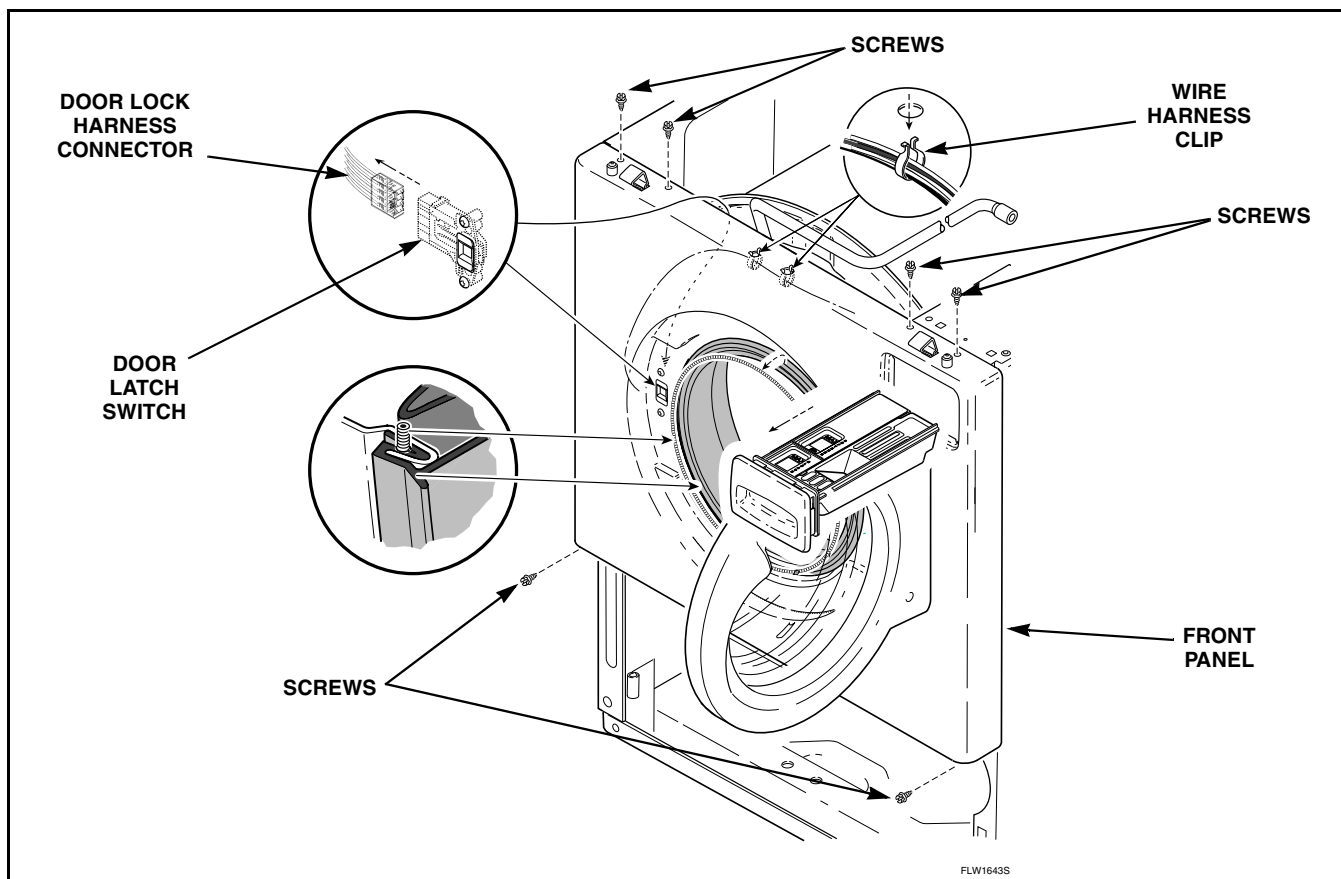


Figure 13



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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**NOTE:** Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 16*.

- g. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 14*.

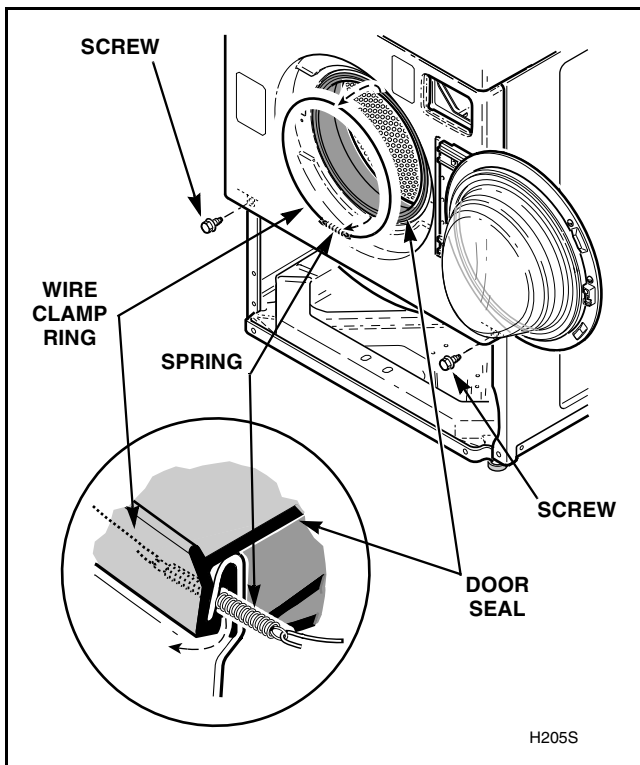


Figure 14

**NOTE:** To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

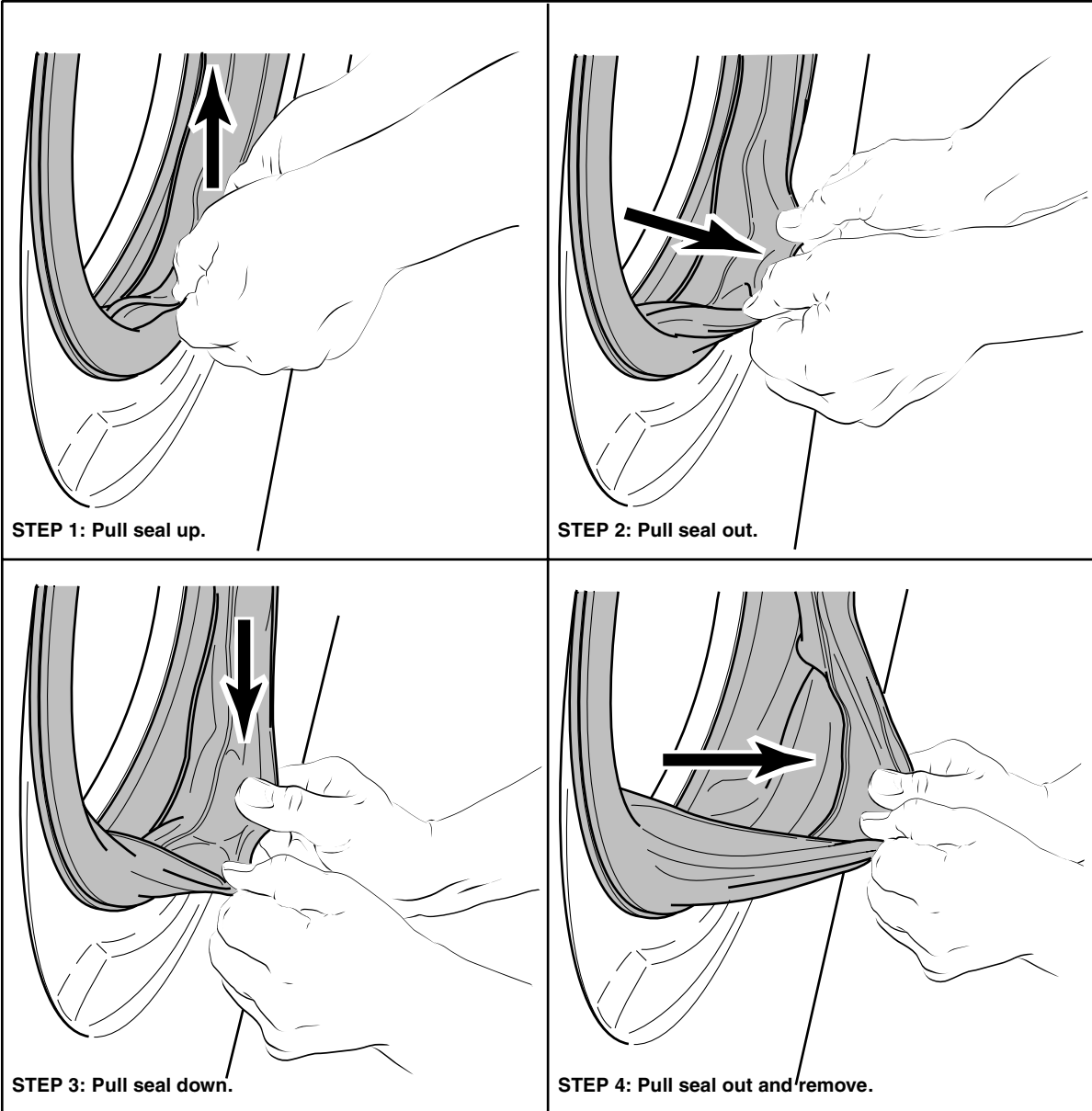
- h. Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE:** To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

- i. Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- j. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.

**NOTE:** The ease of installation of the loading door seal can be improved using water or 409 lubricant to work seal around circumference of loading door. Be sure to orientate seal with the white arrow in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.

- k. For all models except LTS85A\*H, remove two screws holding front panel to washer cabinet.
- l. Remove front panel (with loading door attached) away from washer as far as wires permit.



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Figure 15

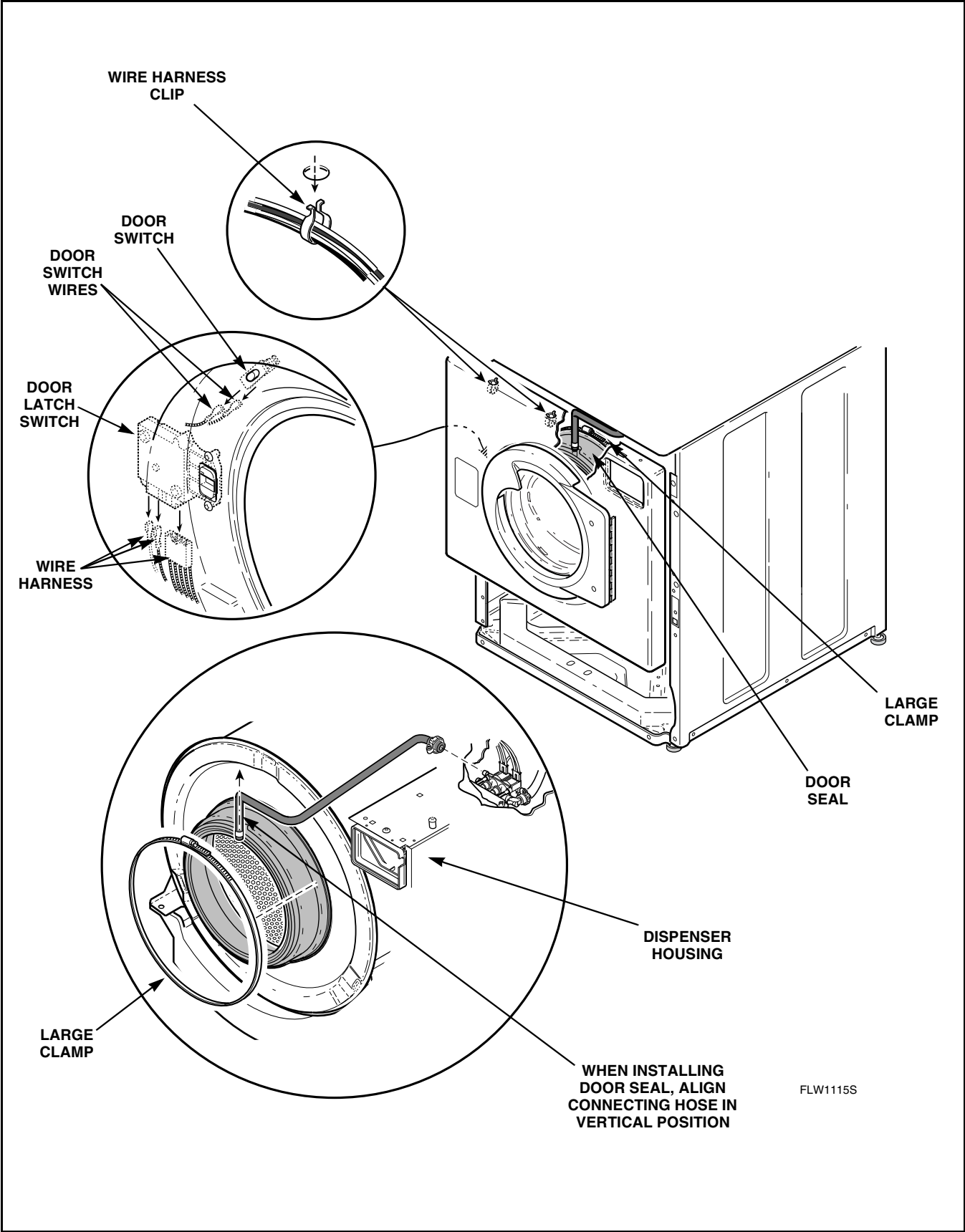


Figure 16



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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### 28. CABINET TOP ASSEMBLY – MODEL LTS85A\*H

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to Figure 10.**

- a. Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to Figure 10.
- b. Push in on putty knife and at the same time lift front edge of cabinet top. Repeat for opposite side.
- c. If area or space permits, lift cabinet top to a vertical position.

**NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to Figure 11.**

#### TO REMOVE CABINET TOP FROM WASHER

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to Figure 10.**

- d. Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to Figure 10.
- e. Push in on putty knife and at the same time pull top edge of front panel away from front of washer. Repeat for opposite side.
- f. Remove three screws holding hood assembly to control hood rear panel. Refer to Figure 5.
- g. Pivot hood assembly forward on cabinet top. Refer to Figure 5.
- h. Disconnect hose from pressure switch and push hose down through hole in cabinet top.
- i. Disconnect wire harness at disconnect blocks, power cord, motor harness wires and ground wire from relay and control board.
- j. Reinstall control hood assembly.
- k. Lift front of cabinet top slightly and pull forward to disengage from rear hold down brackets.

- l. Carefully lift cabinet top off washer and set alongside the washer cabinet on protective padding.

### 29. CABINET TOP ASSEMBLY – ALL OTHER MODELS

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to Figure 9.
- b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
- c. Using the special tool, No. 318P4, remove dispenser drawer. Refer to Figure 12.
- d. Remove two screws on top right side of front panel (above dispenser drawer), top left two screws and then bottom two front corner screws. Refer to Figure 13.
- e. Unplug wire harness from both the door latch switch and from the door switch. Refer to Figure 16. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to Figure 16.**

- f. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to Figure 14.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- g. Grasp loading door seal lip. Refer to Figure 15, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- h. Using a circular motion, pull seal up (Figure 15, Step 1), out (Figure 15, Step 2) and down (Figure 15, Step 3).



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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- i. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.

**NOTE: The ease of installation of the loading door seal can be improved using water or 409 lubricant to work seal around circumference of loading door. Be sure to orientate seal with the white arrow in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.**

- j. Remove two screws holding front panel to washer cabinet.
- k. Remove front panel (with loading door attached) away from washer as far as wires permit.
- l. Remove two cabinet top hold down screws.
- m. Remove three screws holding hood assembly to control hood rear panel. Refer to *Figure 5*.
- n. Pivot hood forward on cabinet top. Refer to *Figure 5*.
- o. Disconnect hose from pressure switch and push hose down through hole in cabinet top.
- p. Disconnect wire harness at disconnect blocks, power cord, motor harness wires and ground wire from relay and control board.
- q. Reinstall control hood assembly.
- r. Lift front of cabinet top slightly and pull forward to disengage from rear hold down brackets.
- s. Carefully lift cabinet top off washer and set alongside the washer cabinet on protective padding.

### 30. MIXING VALVE

- a. Mixing valve is located on upper back right corner of rear panel. Refer to *Figure 17*.
- b. Shut off external hot and cold water supply and remove two inlet hoses.
- c. Loosen hose clamp and remove mixing valve-to-dispenser hose at the mixing valve. Refer to *Figure 17*.
- d. Remove wire harness disconnect blocks from mixing valve solenoid terminals. Refer to *Figure 17*.

**NOTE: Refer to wiring diagram when rewiring solenoids.**

- e. Go to rear of washer and remove screw holding mixing valve and plate to rear panel, then remove valve and plate out through opening in rear panel. Refer to *Figure 17*.
- f. Remove screws holding valve to mixing valve plate. Refer to *Figure 17*.



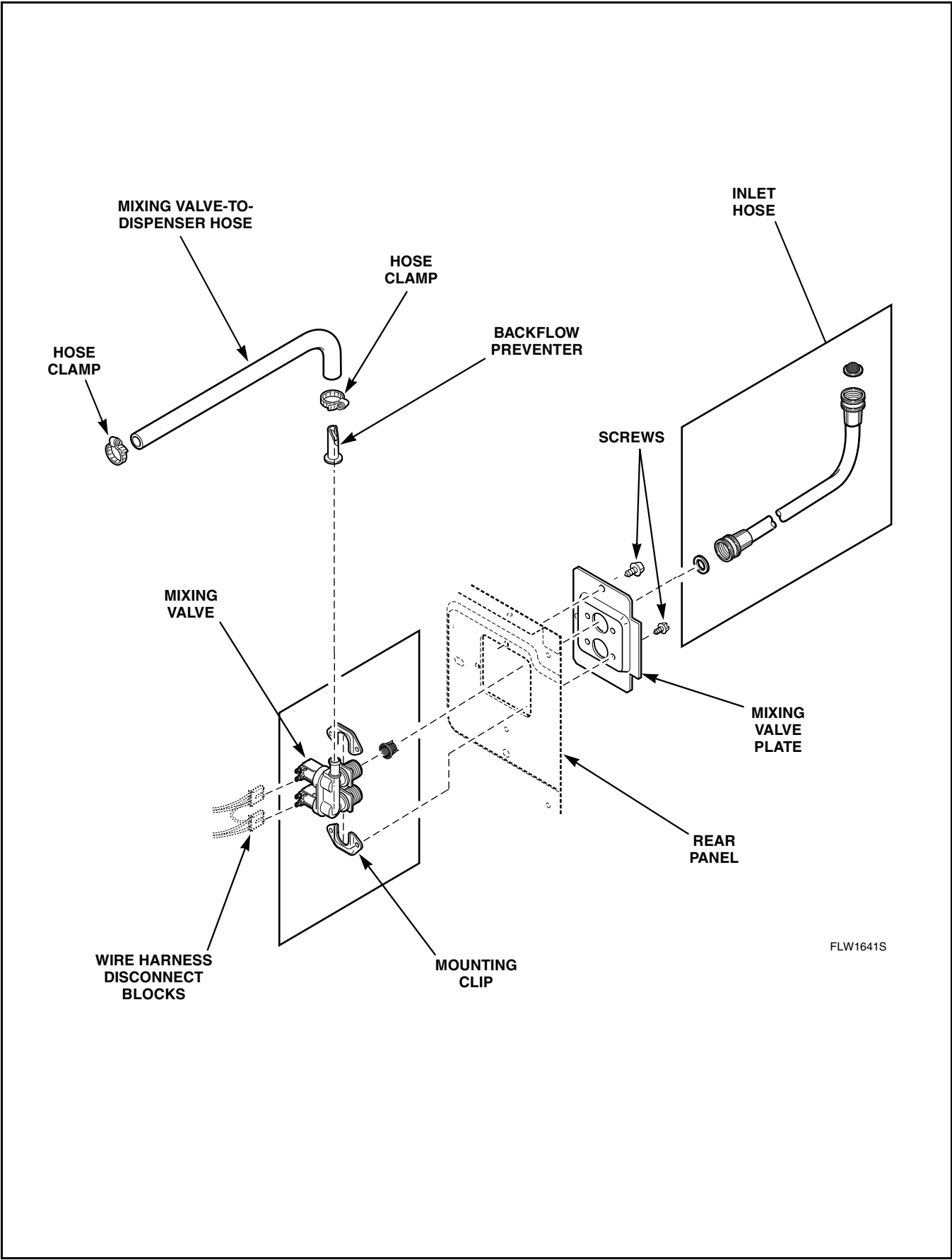


Figure 17



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 31. LOADING DOOR

- Unlatch and open loading door.
- Remove door bezel by prying inside lip up and forward with fingers. Refer to *Figure 18*.
- While supporting loading door, remove screws, lockwashers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 18*.

### 32. DOOR SEAL AND HOSE ASSEMBLY

- Model LTS85A\*H Only:

**NOTE:** Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to *Figure 10*.

- Insert putty knife between cabinet top and top edge of front panel (approximately three inches in front side). Refer to *Figure 10*.
- Push in on putty knife and at the same time lift top edge of cabinet top. Repeat for opposite side.
- If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE:** To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 11*.

- While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 9*.
- Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 12*.
- Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 14*.

**NOTE:** To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

- Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

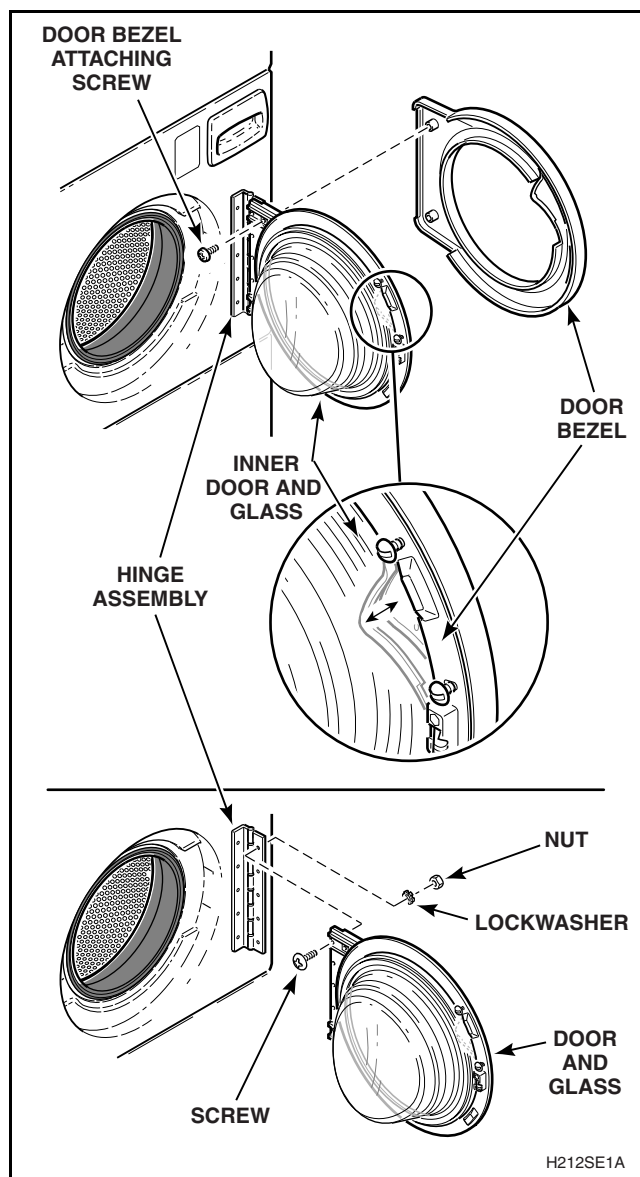


Figure 18

**NOTE:** To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

- Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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- g. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.
- h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*.
- i. For all models except LTS85A\*H, remove two screws holding front panel to washer cabinet.
- j. Remove front panel (with loading door attached) away from washer as far as wires permit.
- k. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 16*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 16*.**

- l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 16*.
- m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 16*.

**NOTE: The ease of installation of loading door seal can be improved using water or 409 lubricant to work seal around the circumference of loading door. Be sure to orientate seal with white arrow in the 12 o'clock position when installing wire clamp ring to the front panel. Be careful not to overstretch tension spring.**

### 33. DOOR SWITCH

- a. Open loading door.
- b. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 14*.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- c. Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- d. Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- e. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.
- f. Reach up between door seal and front panel. Refer to *Figure 16*. Press in on switch locking tabs and push switch out through front panel only far enough to allow removal of wires from switch terminals.

**IMPORTANT: Refer to wiring diagram when rewiring switch.**

### 34. DOOR LATCH SWITCH

- a. Open loading door.
- b. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 14*.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- c. Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- d. Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- e. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.
- f. While supporting door lock from the back (through door opening), remove two Phillips head screws holding door latch switch to front panel. Refer to *Figure 16*.



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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- g. Gently pull door lock out through door opening. Remove door lock only far enough to disconnect harness connector from door lock. Refer to *Figure 16*.

**NOTE:** When installing new door lock, be sure to install small lip through mounting hole first and then rotate lock into position.

### 35. THERMOSTAT (Models equipped with heater)

- While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 9*.
- Remove wire connector from thermostat.
- Reach up behind front panel, grasp thermostat, and using a twisting motion, pull thermostat and rubber grommet out of mounting hole in outer tub front panel. Refer to *Figure 19*.

**NOTE:** The thinner portion of grommet is inserted into outer tub front panel.

**NOTE:** The thermostat is installed into grommet with No. 27615P Sealant (3M800). (Obtain from local parts distributor).

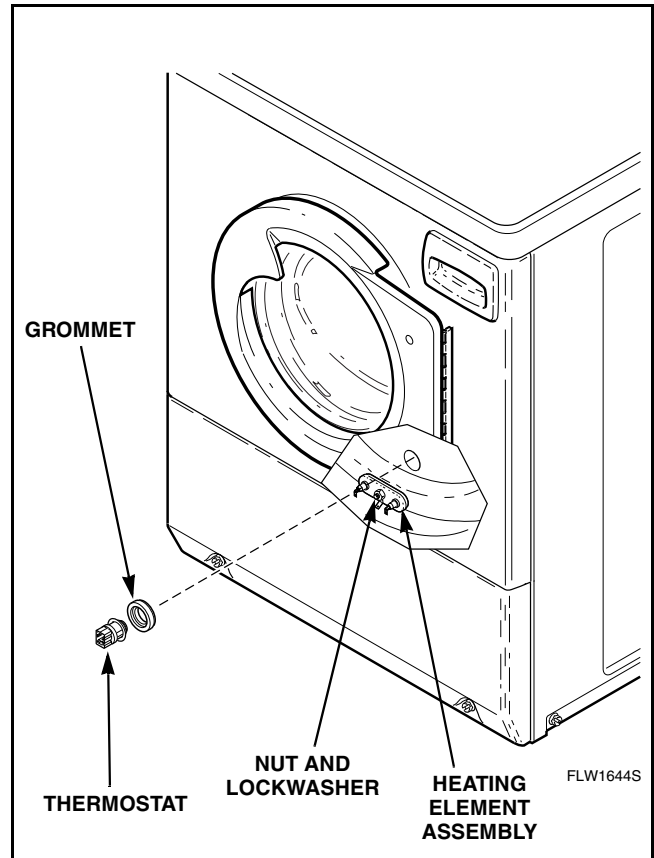


Figure 19



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 36. HEATING ELEMENT ASSEMBLY (Models equipped with heater)

- While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 9*.
- Loosen nut and lockwasher from center terminal of heating element assembly. Refer to *Figure 19*.

- Grasp heating element assembly by the terminals. Pull assembly and rubber washer through opening in outer tub front panel. Refer to *Figure 20*.

**NOTE:** All rubber from old element gasket must be removed prior to installing a new element.

**NOTE:** When installing new heating element assembly, element must be at the 6 o'clock position.

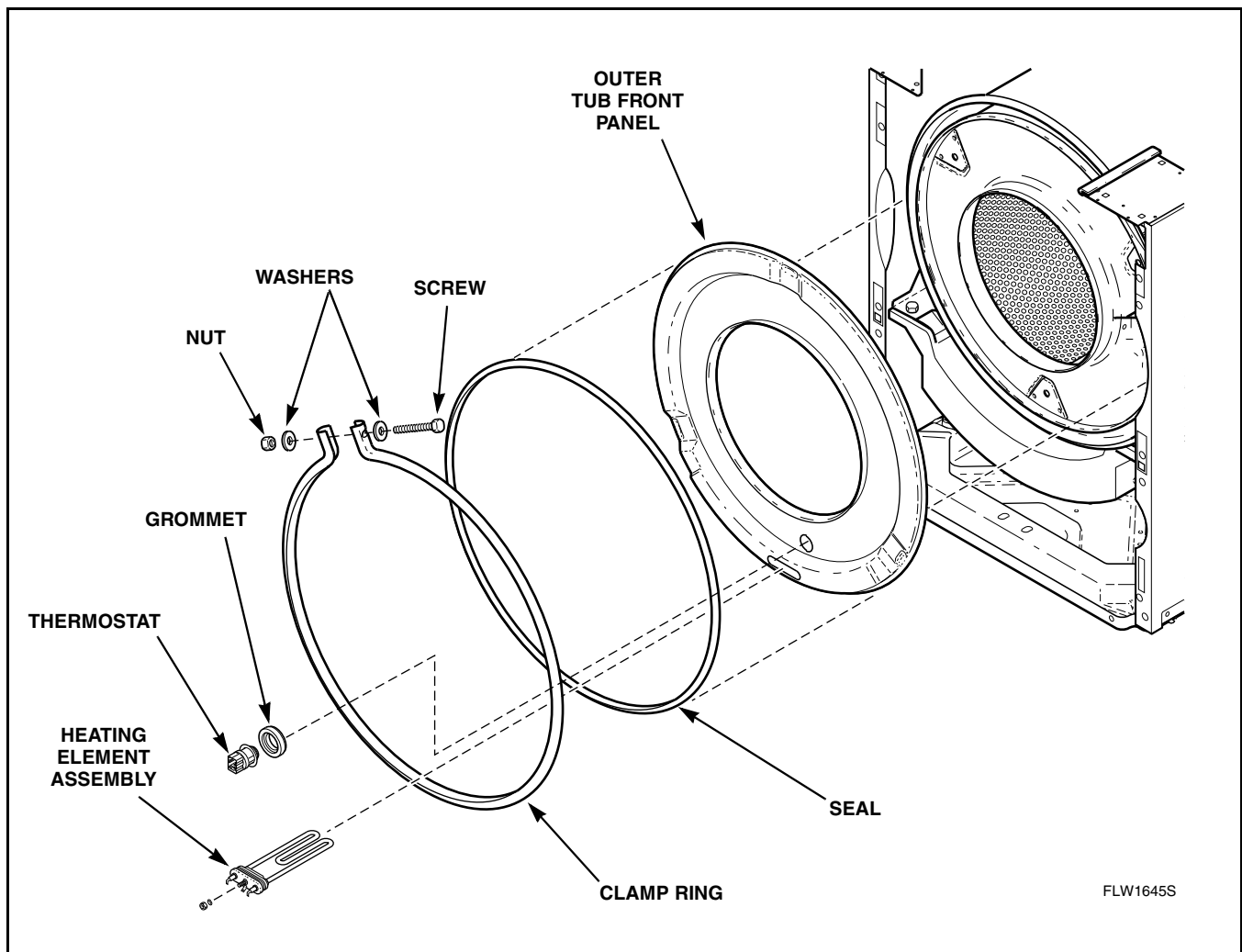


Figure 20



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

### 37. OUTER TUB FRONT PANEL

a. Model LTS85A\*H Only:

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to Figure 10.**

- (1) Insert putty knife between cabinet top and top edge of front panel (approximately three inches in front side). Refer to Figure 10.
- (2) Push in on putty knife and at the same time lift top edge of cabinet top. Repeat for opposite side.
- (3) If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to Figure 11.**

- b. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to Figure 9.
- c. Using the special tool, No. 318P4, remove dispenser drawer. Refer to Figure 12.
- d. Open loading door, carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to Figure 14.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- e. Grasp loading door seal lip. Refer to Figure 15, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- f. Using a circular motion, pull seal up (Figure 15, Step 1), out (Figure 15, Step 2) and down (Figure 15, Step 3).
- g. When seal releases from lip of front panel, pull out and remove the seal. Refer to Figure 15, Step 4.

**NOTE: Door seal installation can be improved using water to soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.**

- h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to Figure 9.
- i. For all models except LTS85A\*H, remove two screws holding front panel to washer cabinet.
- j. Remove front panel (with loading door attached) away from washer as far as wires permit.
- k. Unplug wire harness from both the door latch switch and from the door switch. Refer to Figure 16. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: The large wire clip holds both the wire harnesses and the door seal hose.**

- l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to Figure 16.
- m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to Figure 16.

**NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.**

**NOTE: On washers with heater, heater assembly must be at the 6 o'clock position.**

- n. Disconnect ground wire from outer tub front panel. Refer to Figure 21.
- o. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to Figure 21.
- p. Remove rubber seal from outer tub front panel and discard seal.



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

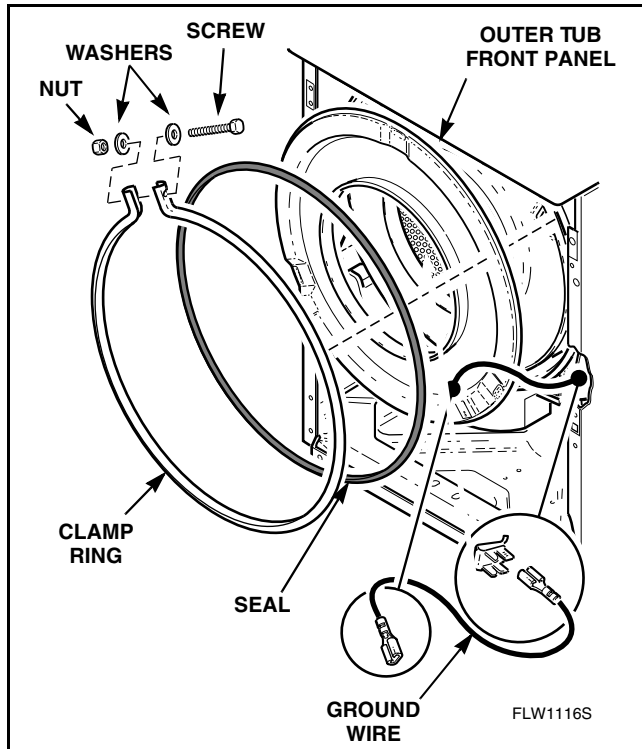


Figure 21

**IMPORTANT:** Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The “puffy” side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

**NOTE:** Install metal clamp ring by placing clamp ring opening at approximately the 10 o’clock position to ensure that no interference is encountered with side panel or the underside of the cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

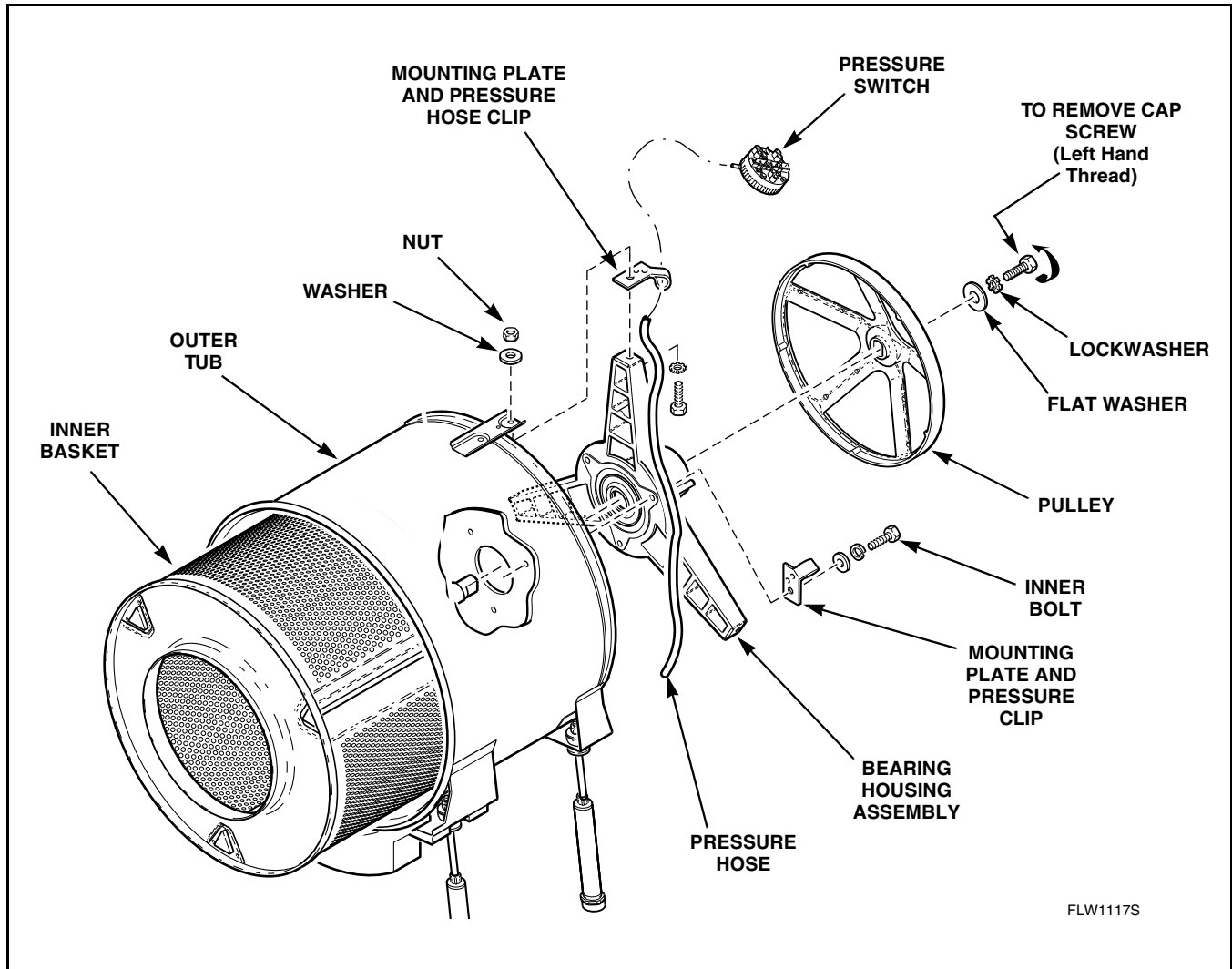


Figure 22





## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

### 38. INNER BASKET PULLEY

a. Model LTS85A\*H Only:

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to Figure 10.**

- (1) Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to Figure 10.
  - (2) Push in on putty knife and at the same time lift front edge of cabinet top. Repeat for opposite side.
- b. All other models:
- (1) While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to Figure 9.
  - (2) Gently lower the access panel to disengage panel locators from bottom edge of front panel.
  - (3) Using the special tool, No. 318P4, remove dispenser drawer. Refer to Figure 12.
  - (4) Remove two screws on top right side of front panel (above dispenser drawer), top left two screws and then bottom two front corner screws. Refer to Figure 13.
  - (5) Unplug wire harness from both the door latch switch and from the door switch. Refer to Figure 16. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to Figure 16.**

- (6) Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to Figure 14.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- (7) Grasp loading door seal lip. Refer to Figure 15, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- (8) Using a circular motion, pull seal up (Figure 15, Step 1), out (Figure 15, Step 2) and down (Figure 15, Step 3).
- (9) When seal releases from lip of front panel, pull out and remove the seal. Refer to Figure 15, Step 4.

**NOTE: The ease of installation of the loading door seal can be improved using water or 409 lubricant to work seal around circumference of loading door. Be sure to orientate seal with the white arrow in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.**

- (10) Remove two screws holding front panel to washer cabinet.
  - (11) Remove front panel (with loading door attached) away from washer as far as wires permit.
  - (12) Remove two cabinet top hold down screws.
- c. If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to Figure 11.**

- d. Run belt off pulley while slowly turning pulley.
- e. Remove belt from motor shaft.
- f. Remove cap screw (**left hand thread**), lockwasher and flat washer holding pulley to inner basket shaft. Refer to Figure 22.
- g. Remove pulley from shaft.

**NOTE: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Refer to 800792 Parts manual for correct part number of cap screw.**



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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**NOTE:** When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

h. After installing belt, adjust belt tension as follows:

- (1) Working through the access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 23*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 23*.

- (2) Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 23*.
- (3) After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 23*.

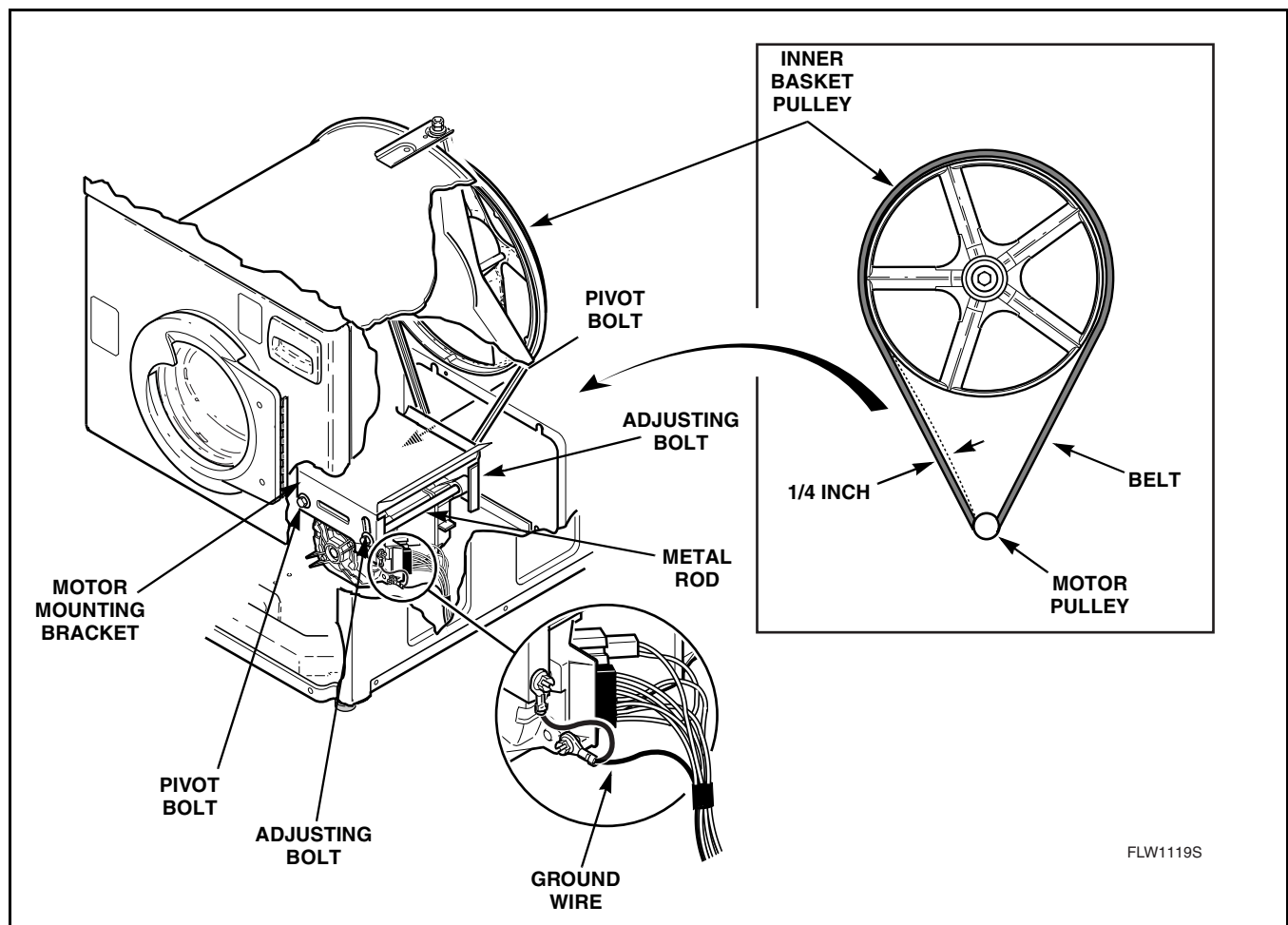


Figure 23



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

### 39. INNER BASKET ASSEMBLY

a. Model LTS85A\*H Only:

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to Figure 10.**

- (1) Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to Figure 10.
  - (2) Push in on putty knife and at the same time lift front edge of cabinet top. Repeat for opposite side.
- b. All other models:
- (1) While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to Figure 9.
  - (2) Gently lower the access panel to disengage panel locators from bottom edge of front panel.
  - (3) Using the special tool, No. 318P4, remove dispenser drawer. Refer to Figure 12.
  - (4) Remove two screws on top right side of front panel (above dispenser drawer), top left two screws and then bottom two front corner screws. Refer to Figure 13.
  - (5) Unplug wire harness from both the door latch switch and from the door switch. Refer to Figure 16. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to Figure 16.**

- (6) Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to Figure 14.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- (7) Grasp loading door seal lip. Refer to Figure 15, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- (8) Using a circular motion, pull seal up (Figure 15, Step 1), out (Figure 15, Step 2) and down (Figure 15, Step 3).
- (9) When seal releases from lip of front panel, pull out and remove the seal. Refer to Figure 15, Step 4.

**NOTE: The ease of installation of the loading door seal can be improved using water or 409 lubricant to work seal around circumference of loading door. Be sure to orientate seal with the white arrow in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.**

- (10) Remove two screws holding front panel to washer cabinet.
  - (11) Remove front panel (with loading door attached) away from washer as far as wires permit.
  - (12) Remove two cabinet top hold down screws.
- c. If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to Figure 11.**

- d. Run belt off pulley while slowly turning pulley.
- e. Remove belt from motor shaft.
- f. Remove cap screw (**left hand thread**), lockwasher and flat washer holding pulley to inner basket shaft. Refer to Figure 22.
- g. Remove pulley front shaft.

**NOTE: When installing pulley, always use a new cap screw to prevent screw from loosening during operation.**



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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**NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).**

- h. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 9*.
- i. Using the special tool, remove dispenser drawer. Refer to *Figure 12*.
- j. Remove screws on top right side of front panel (above dispenser drawer), top left two screws and bottom two corner screws. Refer to *Figure 13*.
- k. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in the 6 o'clock position. Refer to *Figure 14*.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

1. Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- m. Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- n. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.

**NOTE: The ease of installation of the loading door seal can be improved using water or 409 lubricant to work the seal around the circumference of the loading door. Be sure to orientate seal with white arrow in the 12 o'clock position when installing wire clamp ring to front panel. Be careful not to overstretch tension spring.**

- o. Disconnect door lock harness connector and wire harness clip. See *Figure 13*.

- p. For all models except LTS85A\*H, remove two screws holding front panel to washer cabinet.
- q. Remove front panel with loading door attached.
- r. **Heater models:** Remove wires from heating element assembly and thermostat.
- s. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 20*.
- t. Remove rubber seal from the outer tub front panel and discard.

**IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The “puffy” side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.**

**NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.**

- u. Carefully remove inner basket out through front of washer.

### 40. BEARING HOUSING ASSEMBLY

- a. Model LTS85A\*H Only:

**NOTE: Front edge of cabinet top is held in place by two spring clips located on top flange of front panel. Refer to *Figure 10*.**

- (1) Insert putty knife between cabinet top and top edge of front panel (approximately three inches in from side). Refer to *Figure 10*.
- (2) Push in on putty knife and at the same time lift front edge of cabinet top. Repeat for opposite side.
- b. All other models:
  - (1) While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 9*.



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

- (2) Gently lower the access panel to disengage panel locators from bottom edge of front panel.
- (3) Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 12*.
- (4) Remove two screws on top right side of front panel (above dispenser drawer), top left two screws and then bottom two front corner screws. Refer to *Figure 13*.
- (5) Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 16*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

**NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 16*.**

- (6) Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 14*.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- (7) Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- (8) Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- (9) When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.

**NOTE: The ease of installation of the loading door seal can be improved using water or 409 lubricant to work seal around circumference of loading door. Be sure to orientate seal with the white arrow in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.**

- (10) Remove two screws holding front panel to washer cabinet.
- (11) Remove front panel (with loading door attached) away from washer as far as wires permit.
- (12) Remove two cabinet top hold down screws.
- c. If area or space permits, lift cabinet top to a vertical position (top will rest on hinges).

**NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 11*.**

- d. While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 9*.
- e. Using the special tool, No. 318P4, remove the dispenser drawer. Refer to *Figure 12*.
- f. Open loading door. Carefully remove wire clamp ring from groove with a small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 14*.

**NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.**

- g. Grasp loading door seal lip. Refer to *Figure 15*, Step 1.

**NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.**

- h. Using a circular motion, pull seal up (*Figure 15*, Step 1), out (*Figure 15*, Step 2) and down (*Figure 15*, Step 3).
- i. When seal releases from lip of front panel, pull out and remove the seal. Refer to *Figure 15*, Step 4.



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

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- j. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 9*.
- k. For all models except LTS85A\*H, remove two screws holding front panel to washer cabinet.
- l. Remove front panel (with loading door attached) away from washer as far as wires permit.

**NOTE: Refer to wiring diagram when rewiring door switch.**

- m. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 16*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel. Refer to *Figure 16*.

**NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 16*.**

- n. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 16*.
- o. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 16*.

**NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.**

- p. Disconnect ground wire from outer tub front panel. Refer to *Figure 21*.
- q. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 21*.
- r. Remove rubber seal from outer tub front panel and discard seal.

**IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The “puffy” side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.**

**NOTE: Install clamp screw with threads and nut facing downward. Refer to *Figure 21*. Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten screw and nut until a spacing of one inch is achieved at the clamp ring opening. Tap clamp ring all around while tightening the screw and nut.**

- s. Run belt off pulley while slowly turning pulley. Refer to *Figure 23*.
- t. Remove belt from motor shaft.
- u. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 22*.
- v. Remove pulley from shaft.


**IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation.**

**NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).**

- w. After installing belt, adjust belt tension per *Paragraph 44*.
- x. Carefully remove inner basket out through front of washer.

**NOTE: When installing inner basket, apply No. 27604P Anti-Seeze Compound to the area of the trunnion shaft that will be contacting the front and rear bearings.**

- y. Remove three screws holding bearing housing arms to outer tub.

|  |                                     |
|--|-------------------------------------|
|   | <h2 style="margin: 0;">WARNING</h2> |
| <p><b>To reduce the risk of electric shock, fire, explosion, serious injury or death:</b></p> <ul style="list-style-type: none"> <li>• <b>Disconnect electric power to the washer before servicing.</b></li> <li>• <b>Never start the washer with any guards/panels removed.</b></li> <li>• <b>Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.</b></li> </ul> |                                     |
| <p>W003</p>  |                                     |

**IMPORTANT:** Prior to disassembly, note the position of the pressure hose, hose clips and mounting plate so parts can be reinstalled in the same position. Refer to *Figure 22*.

- z. While supporting bearing housing, remove three inner screws holding bearing housing to rear of outer tub. Refer to *Figure 22*.

**NOTE:** When installing the bearing housing, be sure to route the pressure hose under the right arm and attach hose and pressure hose clip to mounting plate. Refer to *Figure 22*. Then route pressure hose up to the hose mounting plate on the top arm. Refer to *Figure 22*. Make sure there is no slack between these two points.

**IMPORTANT:** The 3 inner bolts should always be tightened first and torqued to 150 inch pounds (17.16 Nm). Then tighten the three arm bolts and torque to 275 inch pounds (31.46 Nm).

**NOTE:** If a bearing failure should occur, a new bearing housing assembly should always be used. The bearings and seal are not serviceable parts. Make sure the new bearing housing seal has lubrication in all grooves before installation. If not, lubricate seal with No. 685619 Lubricant.

# Section 6

## Adjustments



### WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

W003

**IMPORTANT:** When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

#### 41. CABINET LEVELING LEGS

- Place washer in position on a clean, firm and reasonably level floor. Installing the washer on any type of carpeting is not recommended.
- Loosen locknuts and adjust the leveling legs until the washer does not rock. Refer to *Figure 24*.

**NOTE:** Level must rest on raised portion of top panel. Refer to *Figure 24*.

- Tighten the locknuts securely against the washer base. If the locknuts are not tight, washer will move out of position during operation.



### CAUTION

**DO NOT** slide washer across floor if the leveling legs have been extended, as legs and base could become damaged.

W248



### CAUTION

**Use of the dispenser drawer or washer door as a handle in the transportation of the washer may cause damage to the dispenser or door.**

W185

- Remove rubber feet from accessories bag and place on all four leveling legs. Refer to *Figure 24*.

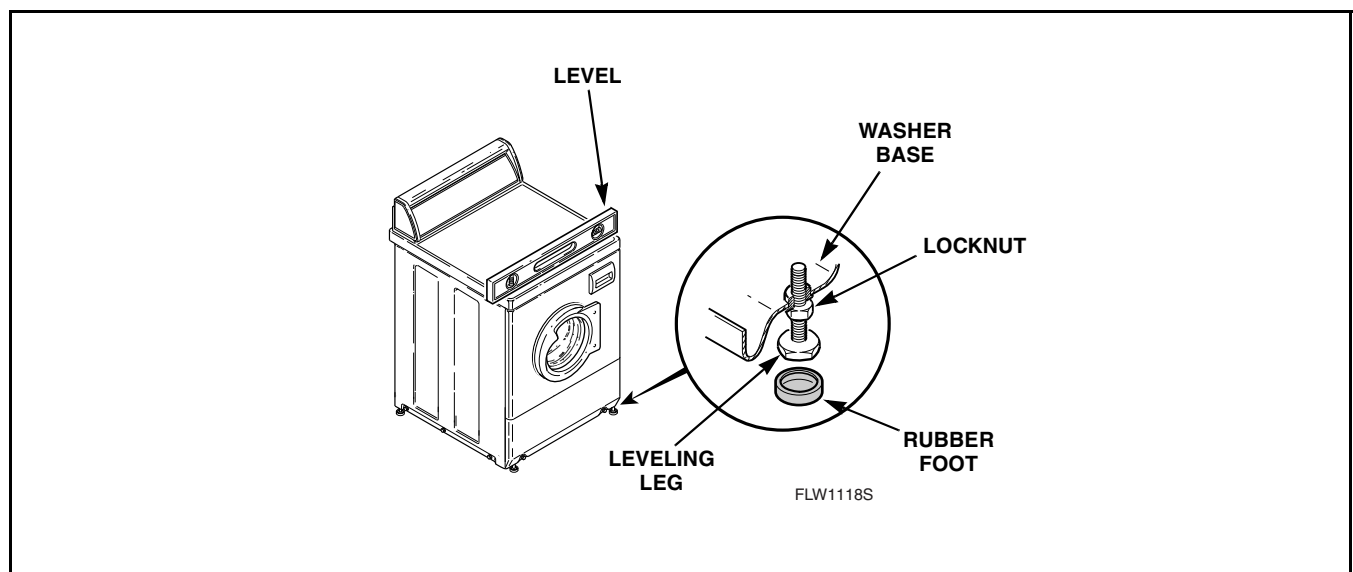


Figure 24





## WARNING

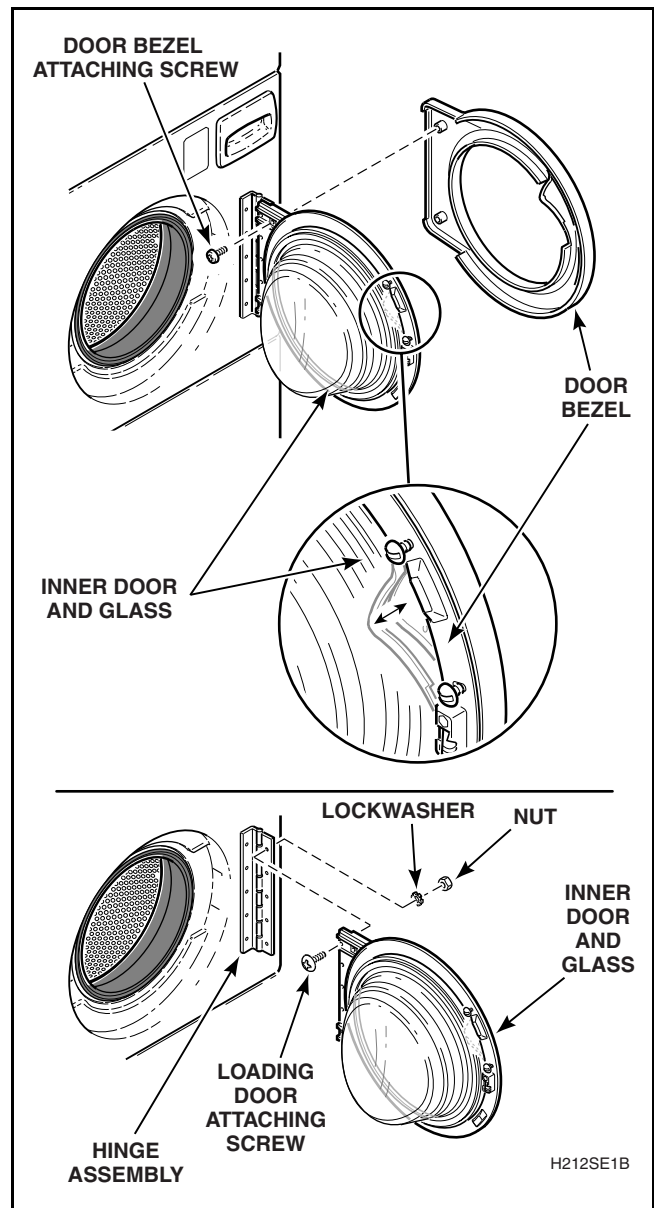
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 42. LOADING DOOR

- Open loading door.
- Remove door bezel to gain access to nuts. Refer to *Figure 25*.
- The loading door can be adjusted up or down somewhat by loosening screws holding door to hinge, then raise or lower door before retightening screws. Refer to *Figure 25*.



H212SE1B

Figure 25



## WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer before servicing.
- Never start the washer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.

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### 43. DOOR CATCH

**NOTE:** When repairing a broken or inoperative No. 685430 Door Catch, proceed as follows:

- Remove door bezel. Refer to *Figure 25*
- Remove two screws and nuts holding door catch to door and remove door catch.
- Install new door catch and tighten screws and nuts to the point of being snug.
- Adjust door catch so the outside edge is aligned with the edge of the latch. Refer to *Figure 26*.
- Visually check that the door catch properly engages the funnel of the door latch/switch assembly. Refer to *Figure 26*.
- Recheck the alignment in Step “d”. Adjust if needed.
- Torque the two nuts to approximately 30 inch pounds (3.4 Nm).
- Reinstall door bezel.

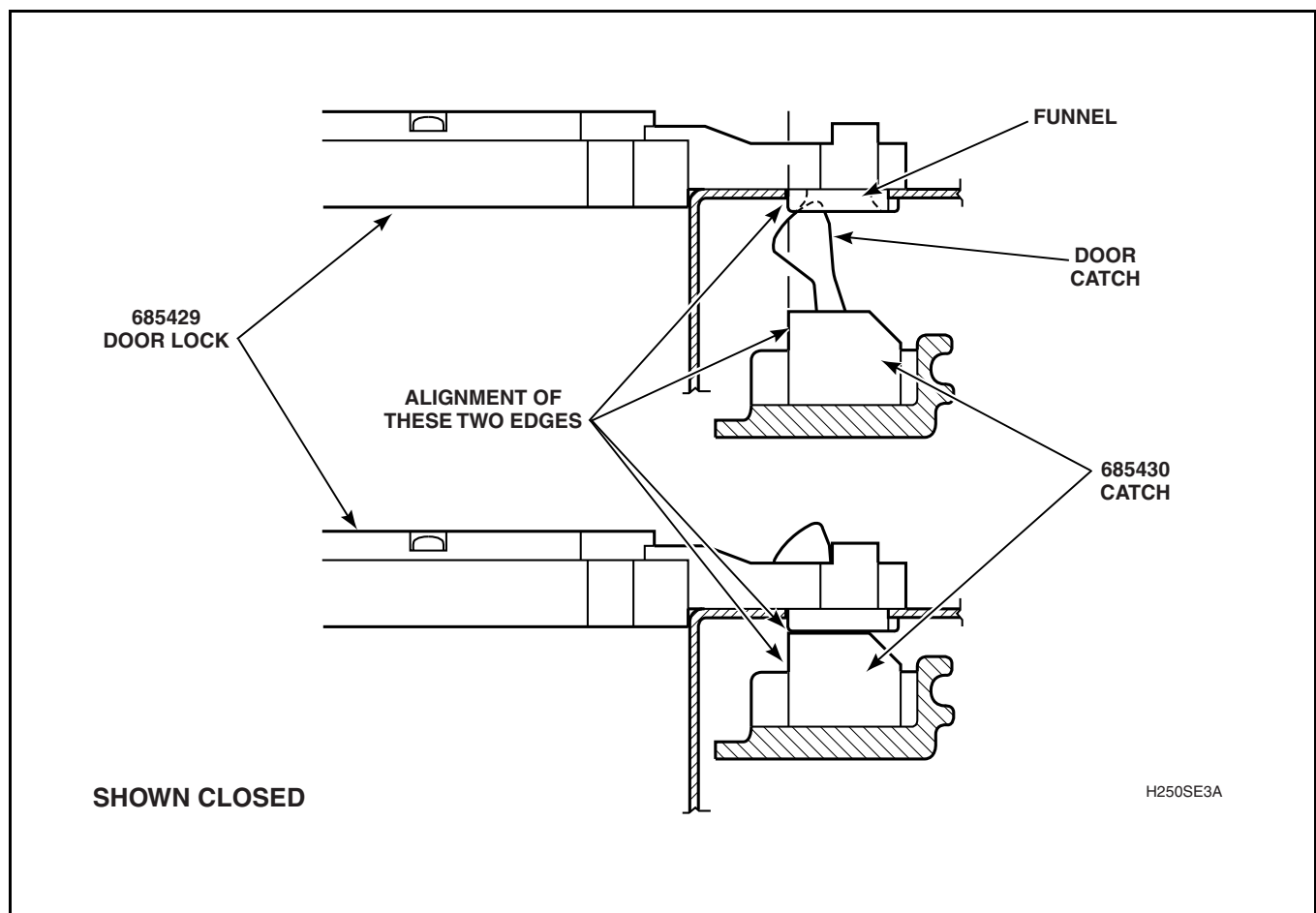


Figure 26



## WARNING

**To reduce the risk of electric shock, fire, explosion, serious injury or death:**

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

### 44. MOTOR BELT

**NOTE:** Belt adjustment procedures are done through front of washer, however, as an option, washer can be moved from its location and belt adjustment can be done through lower access panel opening at rear of washer.

- a. While supporting lower front access panel, remove two screws from bottom edge of access panel and remove panel. Refer to *Figure 9*.
- b. Run belt off cylinder pulley while slowly turning pulley. Refer to *Figure 23*.
- c. Remove belt from motor shaft.

**NOTE:** When installing belt, adjust belt tension as follows:

- d. Working through the lower front access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 22*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 23*.
- e. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 23*.
- f. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 23*.

# Section 7

## Wiring Diagrams



### WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

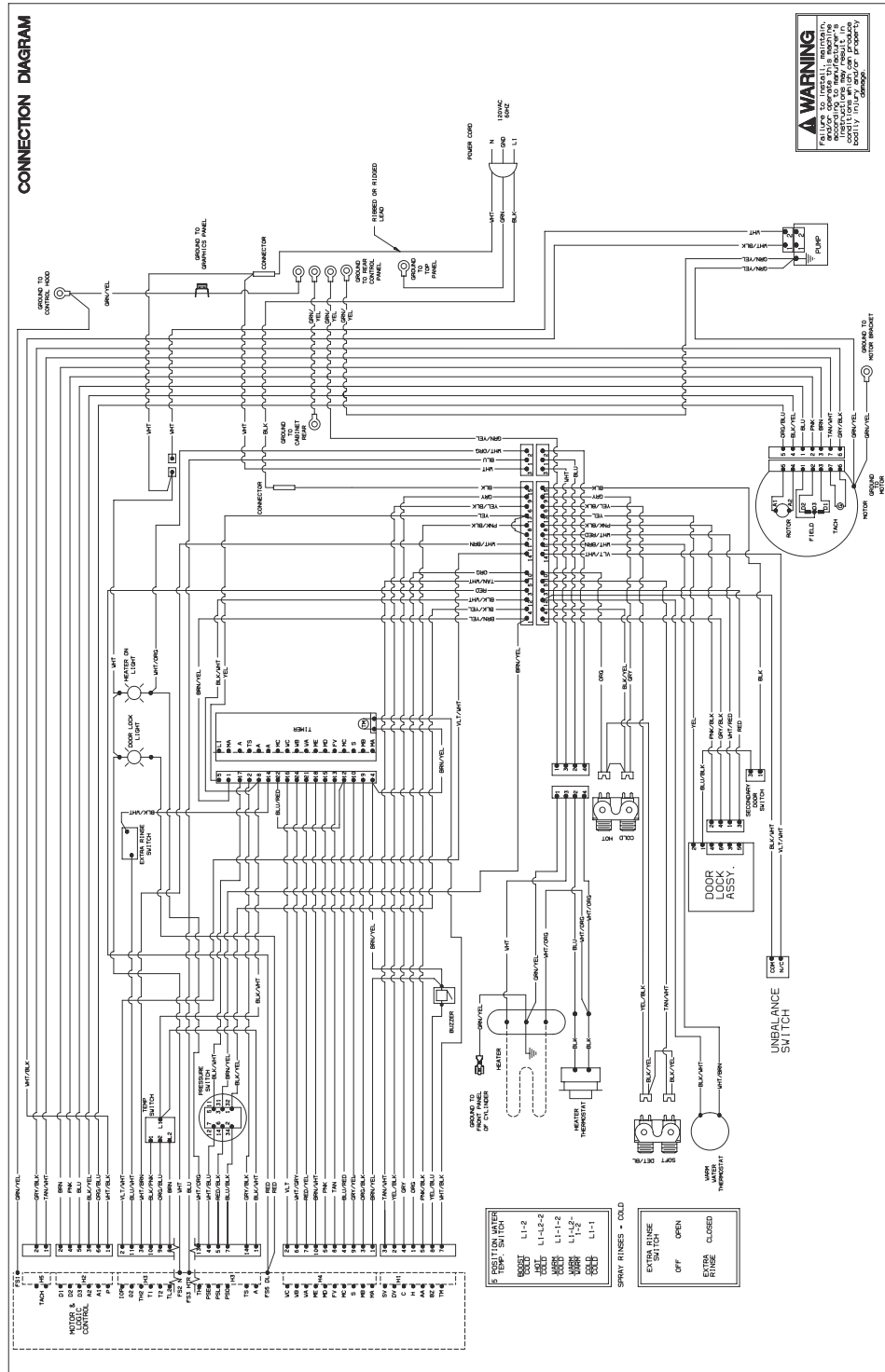
WIRING DIAGRAMS AND SCHEMATICS  
FOUND ON THE FOLLOWING PAGES  
ARE FOR MODELS COVERED IN THIS MANUAL.



## WARNING

**Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.**

W030



### MODELS LTS85A\*H, LTS85B\*H AND LTZ85A\*H1102



# WARNING

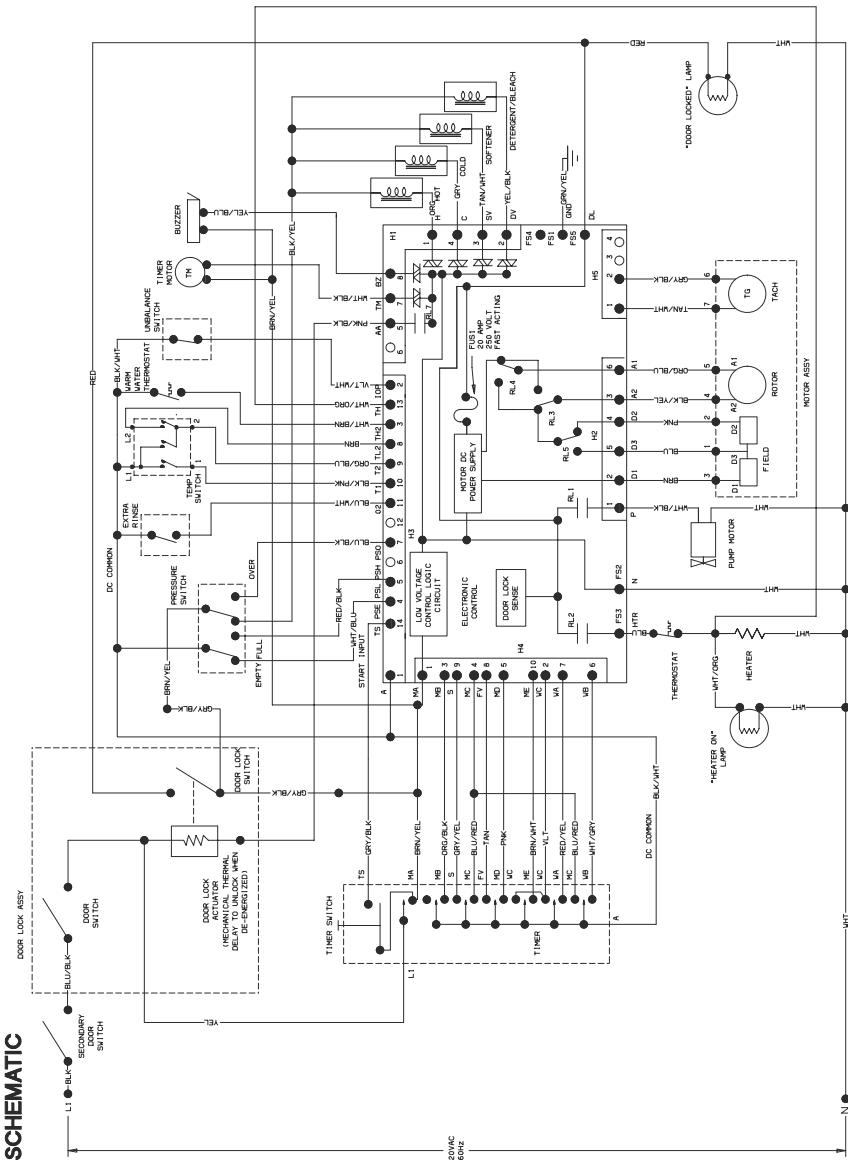
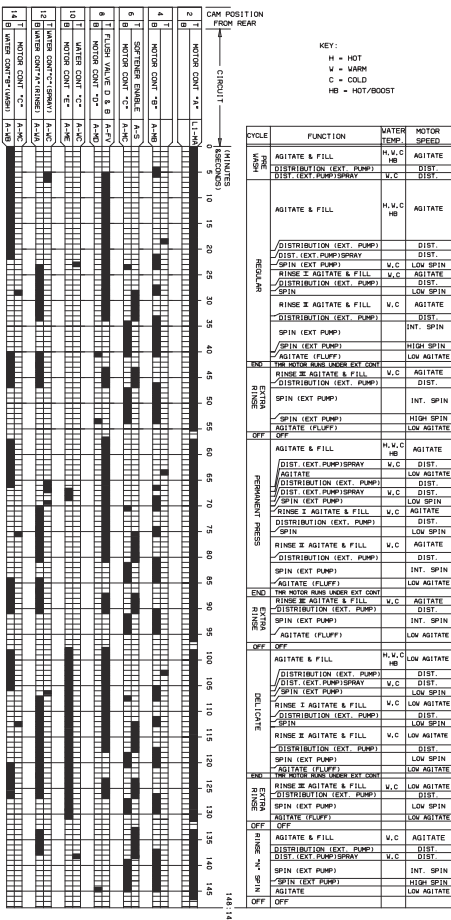
Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

| 5 POSITION WATER TEMPERATURE SWITCH |           |
|-------------------------------------|-----------|
| BOOST COLD                          | L1-2      |
| HOT COLD                            | L1-L2-2   |
| WARM COLD                           | L1-1-2    |
| WARM WARM                           | L1-L2-1-2 |
| COLD COLD                           | L1-1      |

| EXTRA RINSE |        |
|-------------|--------|
| OFF         | OPEN   |
| EXTRA RINSE | CLOSED |

## TIMER CHART



SCHEMATIC

MODELS LTS85A\*H, LTS85B\*H AND LTZ85A\*H102  
Schematic



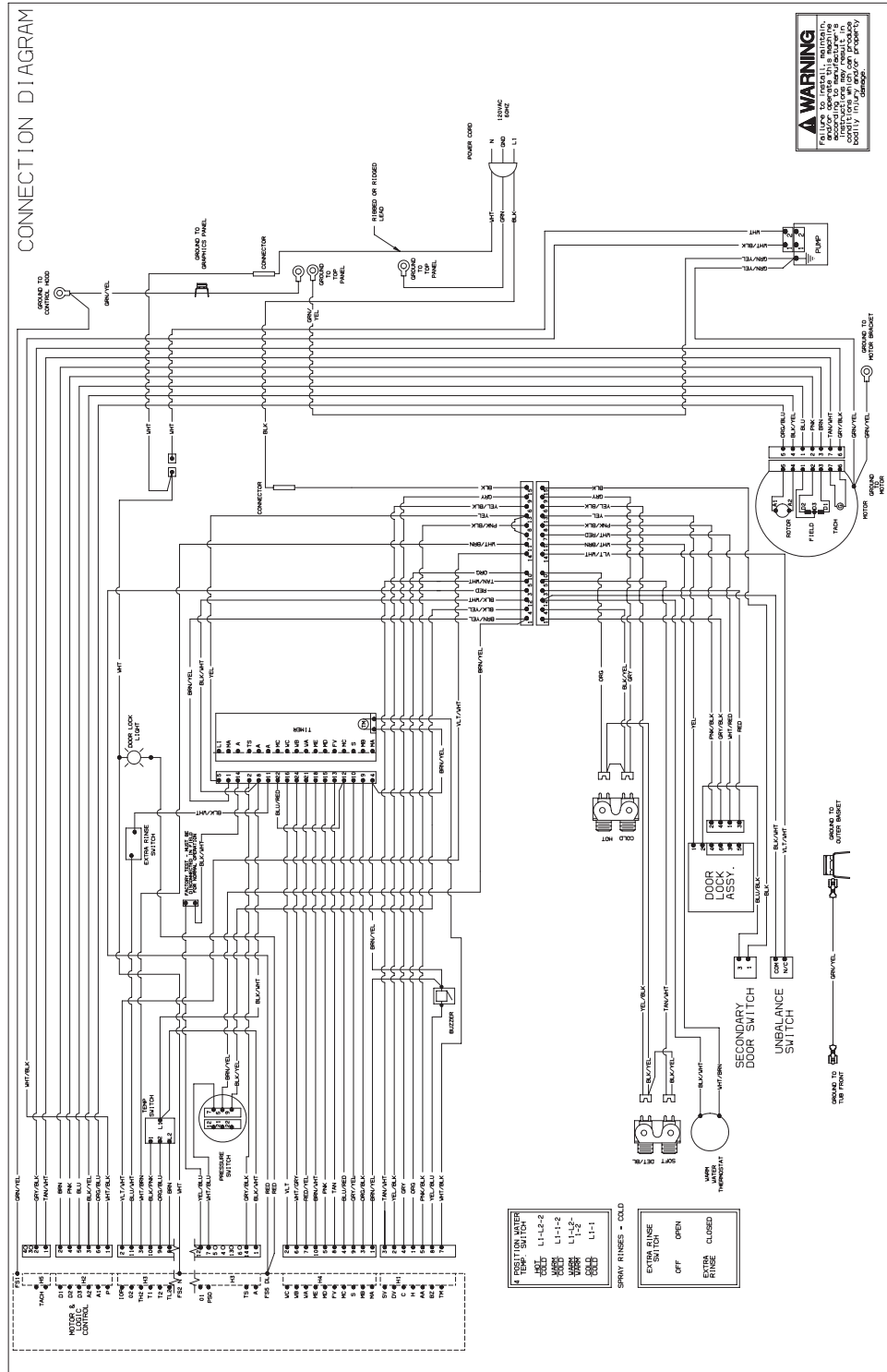
Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.



## WARNING

**Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.**

W030

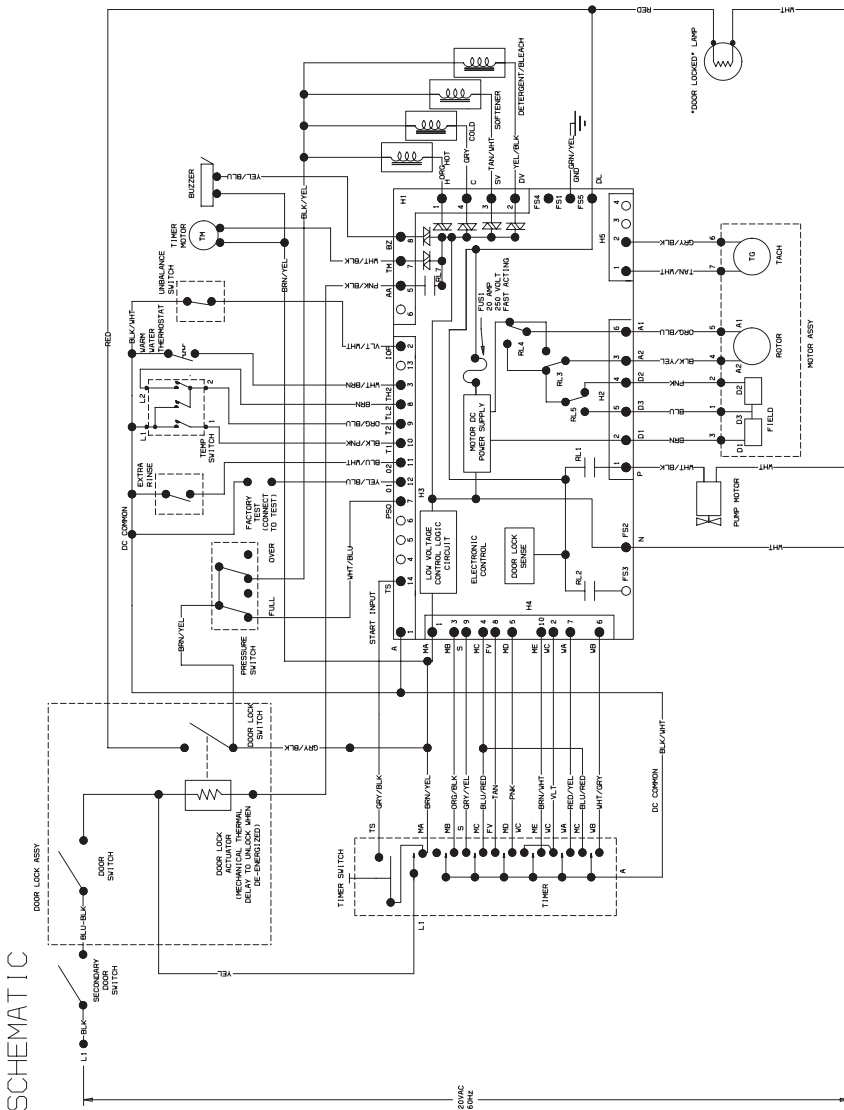


### MODELS LTS84A\*H AND LTS84B\*H Connection

**Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.**

| 4 POSITION WATER TEMPERATURE SWITCH |           |
|-------------------------------------|-----------|
| HOT<br>COLD                         | L1-L2-2   |
| WARM<br>COLD                        | L1-1-2    |
| WARM<br>WARM                        | L1-L2-1-2 |
| COLD<br>COLD                        | L1-1      |

|             |        |
|-------------|--------|
| EXTRA RINSE |        |
| OFF         | OPEN   |
| EXTRA RINSE | CLOSED |



## TIMER CHART

